

ID	Icon	WBS	Task Name	Contact	Resource Initials	
0	grid		<b>D0 Grid Production Computing Initiative</b>	ehnlein		
1	grid	1	<b>D0 Grid Production Architecture</b>	AL		
2	✓	1.1	INPUT: Original architecture document v1.2	AL	AL	
3	✓ grid	1.2	High-level Architecture Document: draft - APIs, component responsibilities	AL	ASB,AL	
4	✓	1.3	milestone: Draft High-level Architecture Document	AL	AL	
5	✓	1.4	High-level Architecture Document: Review	AL	RDK,ASB	
6	✓	1.5	High-level Architecture Document: Revised version	AL	AL	
7	✓ grid	1.6	High-level Architecture Document: Approval - ASB	AL	RDK	
8	grid	1.7	High-level Architecture Document: Approval - VW	AL	RDK	
9		1.8	MILESTONE: D0 Grid Production Architecture document	AL	AL	
10	grid	2	<b>Adjust Responsibilities among SamGrid, D0runjob, D0repro, automc tools</b>	GG		
11	✓	2.1	INPUT: Review of D0runjob interface	PM	PM	
12	✓	2.2	<b>Decouple D0runjob macro and SamGrid</b>	GG		
13	✓	2.2.1	INPUT: Interface changes documented	GG	PM	
14	✓	2.2.2	Decouple D0runjob macro and SamGrid development work	GG	PL	
15	✓ grid	2.2.3	Decoupling: MC Job Type: SamGrid Integration	GG	PM	
16		2.3	<b>Ability to store output at any stage on demand</b>	GG		
17	✓	2.3.1	Store output from any stage: SamGrid development/integration	GG	PM	
18	grid	2.3.2	Store output from any stage: Describe suitable test of feature	GG	PM	
19		2.3.3	Store output from any stage: Create/submit requests to test feature	GG	MRQ	
20		2.3.4	Store output from any stage: Production-level test	GG	JS	
21		2.3.5	MILESTONE: Store output from any stage	GG		
22	✓ grid	2.4	<b>Start Prod via SAM Definition from Stage 2 of Prod: v1</b>	GG		
23	✓	2.4.1	INPUT: Start Prod at Stage 2: D0runjob development	GG	PL	
24	✓	2.4.2	Start Prod at Stage 2: SamGrid development/integration	GG	PM	
25	✓	2.4.3	Start Prod at Stage 2: Production-level test	GG	JS	
26	✓ grid	2.4.4	MILESTONE: Start Prod at Stage 2 Working	GG		
27	✓ grid	2.5	<b>Error Recovery in Phased Processing</b>	GG		
28	✓	2.5.1	Error Recovery: SamGrid development/integration	GG	PM	
29	✓	2.5.2	Error Recovery: Production-level test	GG	JS	
30	✓	2.5.3	milestone: Error Recovery in Phased Processing	GG		
31		2.6	<b>D0repro tools adapted to use Sam v7 request system</b>	GG		
32	✓	2.6.1	D0repro tools adaptation: First 50% implementation	DW	DW	
33		2.6.2	D0repro tools adaptation: Second 50% implementation	DW	DW	
34	grid	2.6.3	D0repro tools adaptation: Evaluate impact on SamGrid and/or D0runjob	GG	PM,PL	
35		2.6.4	D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App	GG	PM	
36		2.6.5	D0repro tools adaptation: Adjust D0runjob to use request system	GG	PL	
37		2.6.6	D0repro tools adaptation: Production-level test	GG	JS	
38		2.6.7	MILESTONE: D0repro tools uses Sam v7 request system	GG		
39		2.7	<b>Resolve how to add production paths in future</b>	GG		
40		2.7.1	Generalization of Job Types according to I/O Characteristics	GG	PM	
41		2.7.2	Resolve how to add production paths in future: Document	GG	PM	

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42		2.7.3	Resolve how to add production paths in future: D0 Approval	GG	ASB	
43		2.7.4	MILESTONE: How to add production paths in future resolved	GG		
44		2.8	<b>Support testing v7/d0runjob/SamGrid functionality</b>	GG		
45	✓	2.8.1	Survey current understanding of testing procedures	GG	RDK	
46	✓	2.8.2	D0GPCI FNAL testing meeting	GG		
47		2.8.3	Testing responsibilities, procedures proposal	GG	GG	
48		2.8.4	Agreement on Component and Integration testing	GG	PL,DW,JS	
49		2.8.5	Tool to setup worker node environment	GG	AB2	
50		2.8.6	D0runjob sets up its own environment	GG	PL	
51		2.8.7	Evaluate and sign-off on test facilities and procedures	GG	PL,DW,JS	
52		2.8.8	MILESTONE: Support testing v7/d0runjob/SamGrid functionality	GG		
53	✉	2.9	<b>Start Prod via SAM Definition from Stage 2 of Prod: v2</b>	GG		
54		2.9.1	Start Prod at Stage 2: SamGrid notification=all bug fix	GG	PM	
55		2.9.2	Start Prod at Stage 2: Production-level re-test	GG	JS	
56		2.9.3	MILESTONE: Start Prod at Stage 2 Ready for Production Release	GG		
57	✉	2.10	<b>Evaluate Extensions to Development</b>	GG		
58	✉	2.10.1	D0runjob/SamGrid Decoupling: Skim Job Type	GG		
59	✉	2.10.2	D0runjob/SamGrid Decoupling: Reco Job Type	GG		
60	✉	2.10.3	D0runjob/SamGrid Decoupling: Merge Job Type	GG		
61	✉	2.10.4	Start Prod via SAM Definition from Stage 3+ of Prod	GG		
62		2.10.5	Fabric interface no longer dependent on Job Type	GG		
63	✉	2.10.6	All merge code into D0runjob	PL		
64		2.11	MILESTONE: Achieve architecture-defined responsibilities among tools	GG		
65	✉	3	<b>Transition Operations Support from SamGrid Dev to Run2 Ops</b>	GG,AL		
66		3.1	<b>Operations Documentation</b>	AL		
67	✓	3.1.1	<b>Data Queues Doc</b>	AL		
68	✓	3.1.1.1	INPUT: Data Queues Doc: Recent Draft	AL	AB2	
69	✓	3.1.1.2	Data Queues Doc: Feed-back, update	AL	AB3,AB2	
70	✓	3.1.1.3	Data Queues Doc: Approve	AL	AL	
71	✓	3.1.1.4	Data Queues Doc: Integrate into SamGrid Documentation	AL	DZ,AL	
72	✓	3.1.1.5	MILESTONE: Data Queues Doc: Completed	AL		
73	✓	3.1.2	<b>Forwarding Node Installation Doc</b>	AL		
74	✓	3.1.2.1	INPUT: Fwd Node Install Doc: Recent Draft	AL	DZ	
75	✓✉	3.1.2.2	Fwd Node Install Doc: Hardware prep attempt	AL	SS	
76	✓✉	3.1.2.3	Fwd Node Install Doc: Feed-back	AL	SS	
77	✓	3.1.2.4	Fwd Node Install Doc: Integrate Dehong and Steve's documents	AL	DZ,SS	
78	✓	3.1.2.5	Fwd Node Install Doc: Approve	AL	AL	
79	✓	3.1.2.6	Fwd Node Install Doc: Integrate into SamGrid Installation Manual	AL	DZ	
80	✓	3.1.2.7	MILESTONE: Fwd Node Install Doc: Completed	AL		
81	✓	3.1.3	<b>Integrating SRM Storage with SAM Doc</b>	GG		
82	✓	3.1.3.1	SRM with SAM Doc: Integrate into SamGrid Documentation	GG	AB2	
83	✓	3.1.3.2	MILESTONE: SRM with SAM Doc: Completed	GG		

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84		3.1.4	<b>Operations Policies Doc</b>	AL		
85		3.1.4.1	Operations Policies doc: Draft	AL	AL	
86		3.1.4.2	Operations Policies doc: Review	AL	GG,RDK	
87		3.1.4.3	Operations Policies doc: Revised version	AL	AL	
88		3.1.4.4	Operations Policies doc: Review, agreement - CD,D0 groups and reps	AL		
89		3.1.4.5	Operations Policies doc: Final version	AL	AL	
90		3.1.4.6	Operations Policies doc: Approve - CD, D0	AL	ASB,RDK	
91		3.1.4.7	<b>MILESTONE: Operations Policies doc</b>	AL		
92		3.1.5	<b>milestone: Operations Documentation completed</b>	AL		
93		3.2	<b>Operations Reduction and Transfer Planning</b>	GG,AL		
94		3.2.1	<b>Current Operations Description</b>	GG		
95		3.2.1.1	<b>INPUT: Write-up of operations issues</b>	GG	GG	
96		3.2.1.2	Current Operations description: draft - level and causes	GG	GG	
97		3.2.1.3	Current Operations description: Review	GG	RDK,AL	
98		3.2.1.4	Current Operations description: Revised version	GG	GG	
99		3.2.1.5	Current Operations description: Approve	GG	ASB	
100		3.2.1.6	<b>milestone: Current Operations description</b>	GG		
101		3.2.2	<b>Future Operations Staffing Doc</b>	AL		
102		3.2.2.1	<b>INPUT: FY08 REX budget determined</b>	RS	RS,AL	
103		3.2.2.2	Future Operations description: draft - acceptable load level and activities	AL	RS,AL	
104		3.2.2.3	Future Operations description: Review	AL	RDK,ASB	
105		3.2.2.4	Future Operations description: Approve	AL	ASB	
106		3.2.2.5	<b>milestone: Future Operations description</b>	AL		
107		3.2.3	<b>Operations Reduction Plan: "Road To Operations"</b>	GG		
108		3.2.3.1	<b>INPUT: Operations Reduction plan: Monitoring, Alarms proposal</b>	GG	AB2	
109		3.2.3.2	Operations Reduction plan: Overall draft	GG	GG	
110		3.2.3.3	Operations Reduction plan: Review	GG	RDK,AL	
111		3.2.3.4	Operations Reduction plan: Revised version	GG	GG,AB2	
112		3.2.3.5	<b>MILESTONE: Operations Reduction plan: Working plan</b>	GG		
113		3.2.3.6	Operations Reduction plan: Coordinate w/FEF	GG	GG	
114		3.2.3.7	Operations Reduction plan: Approve - CD, D0	GG	ASB,RDK	
115		3.2.3.8	<b>milestone: Operations Reduction plan completed</b>	GG		
116		3.2.4	<b>milestone: Operations Reduction and Transfer Planning completed</b>	GG		
117		3.3	<b>Operations Transfer Execution</b>	GG,AL		
118		3.3.1	<b>Operations Transfer: Phase 1 (Checklist)</b>	GG,AL		
119		3.3.1.1	<b>SamGrid Requests to Sam Issue Tracker</b>	GG,AL		
120		3.3.1.1.1	Request SamGrid Users to open tickets	GG,AL	GG	
121		3.3.1.1.2	Inform Sam shifters about handling SamGrid Requests	GG,AL	AL	
122		3.3.1.1.3	<b>milestone: SamGrid Requests to Sam Issue Tracker</b>	GG,AL		
123		3.3.1.2	<b>SamGrid Operations Checklist</b>	GG		
124		3.3.1.2.1	Write-up checklist	GG	PM	
125		3.3.1.2.2	Review checklist	GG	GG,AL	

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126	✓	3.3.1.2.3	Revise checklist	GG	PM
127	✓	3.3.1.2.4	Checklist training, trial run	GG	PM,AL
128	✓	3.3.1.2.5	Fine-tune checklist per feed-back	GG	PM
129	✓	3.3.1.2.6	milestone: SamGrid Operations Checklist Transferred	GG	
130	✓	3.3.1.3	<b>Adapt Operations Checklist to Ops-oriented Format</b>	AL	AL,GG
131	✓	3.3.1.3.1	Adapt to Ops-oriented format	AL	AL
132	✓	3.3.1.3.2	Review, sign-off by GG, AB2	AL	GG,AB2
133	✓	3.3.1.3.3	milestone: Adapt Operations Checklist to Ops-oriented Format	AL	
134	✓	3.3.1.4	MILESTONE: Phase 1 of Operations Transfer completed	GG,AL	
135	✓	3.3.2	<b>Operations Transfer: Phase 2 (Fwd Nodes, Stations)</b>	GG,AL	
136	✓	3.3.2.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX
137	✓	3.3.2.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX
138	✓	3.3.2.3	MILESTONE: Phase 2 of Operations Transfer completed	GG,AL	
139	█	3.3.3	<b>Operations Transfer: Phase 3 (Durable Locations, Queueing Nodes)</b>	GG,AL	
140		3.3.3.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX
141		3.3.3.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX
142		3.3.3.3	MILESTONE: Phase 3 of Operations Transfer completed	GG,AL	
143	█	3.3.4	<b>Operations Transfer: Phase 4 (Jim Client, plus all else)</b>	GG,AL	
144		3.3.4.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX
145		3.3.4.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX
146		3.3.4.3	MILESTONE: Phase 4 of Operations Transfer completed	GG,AL	
147		3.3.5	milestone: Operations Transfer nominally completed	GG,AL	
148		3.4	<b>VDT Version Migration</b>	GG	
149	✓	3.4.1	New VDT: VDT-oriented Testbed setup	GG	PM
150	✓	3.4.2	New VDT: VDT-oriented Testbed resetup	GG	PM
151		3.4.3	New VDT: software adaptation and deployment	GG	PM
152		3.4.4	New VDT: Production-level test	GG	JS
153		3.4.5	MILESTONE: SamGrid migrated to new VDT version	GG	
154	█	3.5	<b>Operations Reduction Execution: "Road To Operations"</b>	GG	
155	█	3.5.1	<b>Reinstall key machines with standard configuration</b>	GG	
156	✓	3.5.1.1	Reach agreement among groups involved (by Sep 14)	GG	GG,AL
157		3.5.1.2	<b>Reinstall Forwarding Nodes with standard configuration</b>	GG,AL	
158	✓	3.5.1.2.1	Define standard fwd node machine configuration	GG	PM
159		3.5.1.2.2	<b>Reinstall Forwarding Nodes: Oct 22- Nov 20</b>	GG	
160	█	3.5.1.2.2.1	Admins procure HW parts for all fwd nodes	GG	FEF
161		3.5.1.2.2.2	<b>Reinstall Forwarding Node 1 (w/Sam Station)</b>	GG	
162		3.5.1.2.2.2.1	Admins configure candidate fwd node (by Oct 22)	GG	FEF
163		3.5.1.2.2.2.2	Developers install and test candidate fwd node (by Fri Oct 26)	GG	PM
164	█	3.5.1.2.2.2.3	Adjust current installation instructions	GG	PM
165		3.5.1.2.2.2.4	Adjust current software to use standard location as default	GG	PM
166		3.5.1.2.2.2.5	REX ops re-installs on candidate machine	AL	REX
167	█	3.5.1.2.2.2.6	Switch candidate machine and d0srv047 (fwd + station) (Nov 6)	GG	REX

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168	3.5.1.2.2.2.7	Admins and REX ops configure production fwd node	GG	FEF
169	3.5.1.2.2.2.8	milestone: Forwarding Node w/Sam Station Reinstalled with standard configuration	GG	
170	3.5.1.2.2.3	INPUT: Test of fail-over in production environment	GG	PM
171	3.5.1.2.2.4	<b>Reinstall Forwarding Node 2</b>	AL	
172	3.5.1.2.2.4.1	REX ops drains and take production fwd node offline	AL	REX
173	3.5.1.2.2.4.2	REX ops installs software on production fwd node (d0srv66)	AL	REX
174	3.5.1.2.2.4.3	Put fwd node back into system d0srv66 (Nov 13)	AL	REX
175	3.5.1.2.2.4.4	Admins and REX ops configure production fwd node	AL	FEF
176	3.5.1.2.2.5	<b>Reinstall Forwarding Node 3</b>	AL	
177	3.5.1.2.2.5.1	REX ops drains and take production fwd node offline	AL	REX
178	3.5.1.2.2.5.2	REX ops installs software on production fwd node (d0srv15)	AL	REX
179	3.5.1.2.2.5.3	Switch candidate machine and d0srv15 (1 fwd node downtime) (Nov 15)	AL	REX
180	3.5.1.2.2.5.4	Admins and REX ops configure production fwd node	AL	FEF
181	3.5.1.2.2.6	REX ops installs software on test fwd node (d0srv47)	AL	REX
182	3.5.1.2.2.7	MILESTONE: OSG Forwarding nodes reinstalled with standard configuration	GG	
183	3.5.1.2.2.8	Organize activities to prepare for LCG fwd node downtime	GG	GG
184	3.5.1.2.2.9	Reinstall LCG fwd node (Dec 4 downtime)	GG	REX
185	3.5.1.2.3	milestone: Forwarding nodes reinstalled with standard configuration	GG	
186	3.5.1.3	<b>Reinstall Queuing Nodes with standard configuration</b>	GG,AL	
187	3.5.1.3.1	Define standard queuing node machine configuration	GG	PM
188	3.5.1.3.2	<b>Reinstall Queuing Nodes: Oct 19 - Nov 6</b>	GG	
189	3.5.1.3.2.1	Admins procure HW parts for samgrid-like node (job queuing, broker, web server)	GG	FEF
190	3.5.1.3.2.2	Admins configure test instance of samgrid-like node	GG	FEF
191	3.5.1.3.2.3	Developers install and test samgrid-like node (by Fri Nov 2)	GG	PM
192	3.5.1.3.2.4	Adjust current installation instructions	GG	PM
193	3.5.1.3.2.5	Adjust current software to use standard location as default	GG	PM
194	3.5.1.3.2.6	Admins configure production samgrid-like node	AL	FEF
195	3.5.1.3.2.7	REX ops installs software on production samgrid-like node	AL	REX
196	3.5.1.3.2.8	<b>REX ops integrates new samgrid-like nodes into production system</b>	AL	
197	3.5.1.3.2.8.1	Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)	AL	REX
198	3.5.1.3.3	MILESTONE: Queuing nodes reinstalled with standard configuration	GG	
199	3.5.1.4	<b>Reinstall Durable Locations with standard configuration</b>	GG,AL	
200	3.5.1.4.1	Define standard durable location machine configuration	GG	PM
201	3.5.1.4.2	<b>Reinstall Durable Locations: Nov 9 - Nov 28</b>	GG	
202	3.5.1.4.2.1	Admins procure and configure durable location test node	GG	FEF
203	3.5.1.4.2.2	Admins configure test instance of durable location node (by Fri Nov 9)	GG	FEF
204	3.5.1.4.2.3	Developers install and test durable location node (by Fri Nov 23)	GG	PM
205	3.5.1.4.2.4	Adjust current installation instructions	GG	PM
206	3.5.1.4.2.5	Adjust current software to use standard location as default	GG	PM
207	3.5.1.4.2.6	REX ops re-installs on test machine	AL	REX
208	3.5.1.4.2.7	<b>REX ops reconfigures existing durable locations</b>	AL	
209	3.5.1.4.2.7.1	Stop tmrb upload to d0srv063; REX ops reinstalls durable location (Nov 26-27)	AL	REX

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210		3.5.1.4.2.7.2	Stop tmr upload to d0srv065; REX ops reinstalls durable location (Nov 28-29)	AL	REX	
211		3.5.1.4.3	MILESTONE: Durable Locations reinstalled with standard configuration	GG		
212		3.5.1.5	milestone: Standard configuration defined and key machines reinstalled	GG		
213		3.5.2	<b>Automate routine maintenance operations</b>	GG		
214		3.5.2.1	<b>Automatic clean up of job queues</b>	GG		
215		3.5.2.1.1	Auto-clean up SamGrid job queue (samgrid.fnal.gov)	GG	PM	
216		3.5.2.1.2	Auto-clean up OSG job queue (fwd nodes)	GG	PM	
217		3.5.2.2	<b>Automatic clean-up of disk areas</b>	GG		
218		3.5.2.2.1	Resolve: Globus gatekeeper does not properly cleanup gass caches	GG	PM	
219		3.5.2.2.2	Periodically clean up gram log files at fwd nodes and exec sites	GG	PM	
220		3.5.2.2.3	Clean up sandboxes and jim_tmp areas at fwd node	GG	PM	
221		3.5.2.2.4	Clean up non-rotated log files (eg. Tomcat)	GG	PM	
222		3.5.2.3	Automation of all gridmap file management (including condor_schedd)	GG	PM	
223		3.5.2.4	Simplify maintenance of automatic clean-up scripts for durable locations	GG	AB2	
224		3.5.2.5	Add the deployment of scripts to installation instructions	GG	PM	
225		3.5.2.6	Assess automation of maintenance operations	GG	AL	
226		3.5.2.7	MILESTONE: Routine maintenance operations automated	GG		
227		3.5.3	<b>Improve robustness of key services</b>	GG		
228		3.5.3.1	<b>Improve condor status querying performance: install, evaluate condor_quill</b>	GG		
229		3.5.3.1.1	Determine goal level, requirements	GG	PM	
230		3.5.3.1.2	Determine existing querying performance	GG	PM	
231		3.5.3.1.3	DECISION: test condor_quill or mitigate or live with current	GG		
232		3.5.3.1.4	Evaluate condor_quill, if determined to be necessary	GG	PM	
233		3.5.3.2	Improve algorithm for selection of OSG resources	GG	PM	
234		3.5.3.3	milestone: Robustness in key services improved	GG		
235		3.5.4	<b>Automatic handling of job log files</b>	GG		
236		3.5.4.1	Reduce size of output sandbox	GG	AB2	
237		3.5.4.2	Make output sandbox space management more robust	GG	AB2	
238		3.5.4.3	Transfer output sandbox selection logic to Runjob	GG	PL	
239		3.5.4.4	Provide tools (to MD) for accessing old logfiles	GG	AB2	
240		3.5.5	<b>Automate system health alarms</b>	GG		
241		3.5.5.1	<b>NGOP central service</b>	GG		
242		3.5.5.1.1	Define hardware	GG	AB2	
243		3.5.5.1.2	Install basic NGOP server	GG	AB2	
244		3.5.5.1.3	Develop generic NGOP rules: alarm severity, paging/email notifications	AL	AL	
245		3.5.5.1.4	Deploy and test best schema as depicted	GG	AB2	
246		3.5.5.1.5	Understand SAM-Grid representation requirements: Dev part	AL	AB2	
247		3.5.5.1.6	Understand SAM-Grid representation requirements: Ops part	AL	RH	
248		3.5.5.1.7	Automated administration of NGOP schema and config	AL	RH	
249		3.5.5.1.8	milestone: NGOP central service prepared	GG		
250		3.5.5.2	<b>Samgrid_mon</b>	GG		
251		3.5.5.2.1	Develop persistent environment for repetitive task execution	GG	AB2	

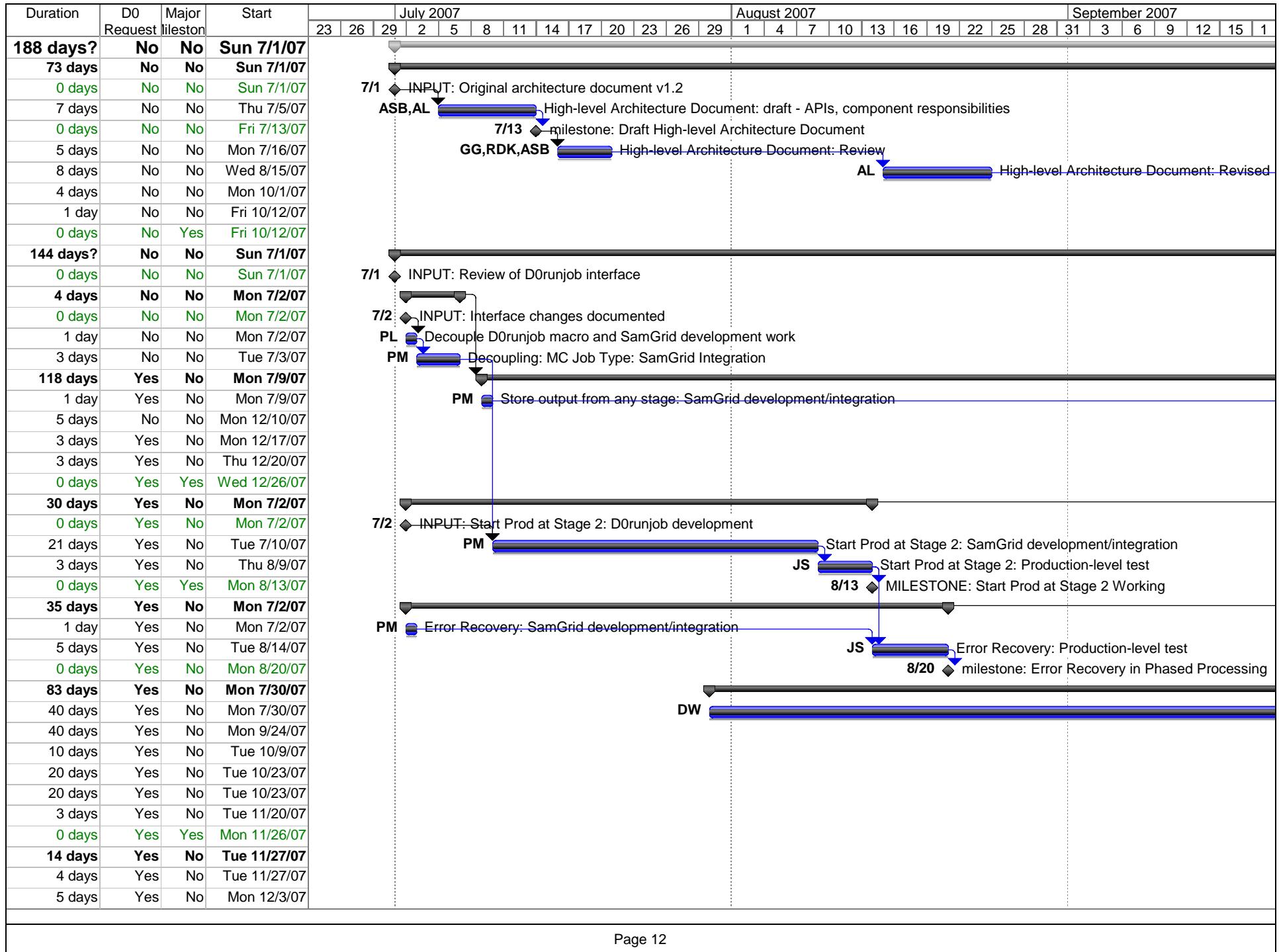
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252		3.5.5.2.2	Develop converter between SamGrid config and next-gen cron	GG	AB2
253		3.5.5.2.3	Generate NGOP agents from set of monitoring scripts and config	GG	AB2
254		3.5.5.2.4	Store duplicate configuration of fwd node	GG	AB2
255		3.5.5.2.5	Accept existing configuration of fwd node	GG	AB2
256		3.5.5.2.6	Dispatch list of monitoring agents periodically, collect statuses	GG	AB2
257		3.5.5.2.7	Create distributable UPD package	GG	AB2
258		3.5.5.2.8	milestone: Samgrid_mon developed	GG	
259		3.5.5.3	<b>Develop monitoring scripts</b>	GG	
260		3.5.5.3.1	Develop generic scripts for Gridftp and Fcp monitoring	GG	AB2
261	✉	3.5.5.3.2	Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, optional scheduling component	GG	AB2
262		3.5.5.3.3	Data Nodes: Stager, Durable location, caches, Gridftp, Fcp	GG	AB2
263		3.5.5.3.4	milestone: Monitoring scripts developed	GG	
264		3.5.5.4	milestone: System Health Alarm System nominally functional	GG	
265		3.5.5.5	Assess automation of alarming systems	GG	AB2
266		3.5.5.6	Integration deployment and testing	GG	AB2
267		3.5.5.7	Documentation	GG	AB2
268		3.5.5.8	MILESTONE: System health alarms via NGOP automated	GG	
269	✉	3.5.6	<b>Improve system testing infrastructure</b>	GG	
270	✓	3.5.6.1	<b>Simplify running test jobs</b>	GG	
271	✓	3.5.6.1.1	Create test parameters for all job types	GG	AB2
272	✓	3.5.6.1.2	Create and distribute JDL templates with test parameters	GG	AB2
273	✓	3.5.6.1.3	Write testing instructions	GG	AB2
274	✓	3.5.6.1.4	milestone: Running test jobs simplified per request	GG	
275		3.5.6.2	<b>Automatic submission of test jobs</b>	GG	
276		3.5.6.2.1	Develop automatic job management framework	GG	AB2,REX
277		3.5.6.2.2	Automatic analysis of test results	GG	AB2,REX
278		3.5.6.2.3	Integrate with alarming system	GG	AB2,REX
279		3.5.6.2.4	milestone: Automatic submission of test jobs completed	GG	
280		3.5.7	milestone: End of the Road to Operations	GG	
281		3.6	<b>Operations Reduction/Transfer: Close-out</b>	GG,AL	
282		3.6.1	Evaluate operations load on dev and ops groups post-transition	GG,AL	
283		3.6.2	Evaluate operations processes post-transition	GG,AL	
284		3.6.3	MILESTONE: Close-out of Operations Reduction/Transfer completed	GG,AL	
285		3.7	<b>Other Operations-related Fixes and Upgrades</b>	GG	
286	✓	3.7.1	Clarify D0 certificate approval process, personnel	GG	GG
287		3.7.2	<b>Improve installation procedures for key services (LOW PRI)</b>	GG	
288		3.7.2.1	Investigate alternative (to UPD) deployment methods	GG	PM
289		3.7.2.2	Simplify installation process with new method or with a UPD umbrella package	GG	PM
290	✉	3.7.3	<b>Automate Mgmt of XML database (LOW PRI)</b>	GG	
291		3.7.3.1	Auto Mgmt XML DB: Procedure to remove old XML DB entries. recover FS space	GG	PM
292		3.7.3.2	Auto Mgmt XML DB: Automate this or make part of maint. downtime procedures	GG	PM
293		3.7.3.3	Auto Mgmt XML DB: Large DB performance degradation	GG	PM

ID		WBS	Task Name	Contact	Resource Initials	
294		3.7.3.4	Auto Mgmt XML DB: Infrequent index corruption	GG	PM	
295		3.7.3.5	milestone: Ops Scripts automate mgmt of XML DB	GG	GG	
296		3.7.4	<b>Fix "Immortal Jobs" Operations Issue</b>	GG		
297		3.7.4.1	Fix Immortal Jobs: SamGrid development/integration	GG	PM	
298		3.7.4.2	Fix Immortal Jobs: Create/submit requests to test feature	GG	MRQ	
299		3.7.4.3	Fix Immortal Jobs: Production-level test	GG	JS	
300		3.7.4.4	milestone: Fix Ready for Production Release	GG	GG	
301		3.8	milestone: Complete reduction/transition of operations support	GG,AL		
302		4	<b>D0 Primary Production on Fermigrid</b>	MD		
303		4.1	<b>Initial Commissioning</b>	MD		
304		4.1.1	INPUT: Attempt to run D0 Primary Production on FermiGrid	MD	MD	
305		4.1.2	OSG/Fermigrid Resource Selection Meeting	MD	MD	
306		4.1.3	Config D0Production role: Fermigrid, GUMS, CAB, PBS, etc.	ST,JBd	MD	
307		4.1.4	Run D0 Primary Prod via D0Production role	MD	MD	
308		4.1.5	<b>MILESTONE: D0 Primary Production Runnable on Fermigrid</b>	MD	MD	
309		4.2	D0PPF Commissioning Evaluation Meeting	RDK		
310		4.3	<b>LIST: Stable Operations</b>	MD		
311		4.3.1	<b>Commissioning Follow-up</b>	MD		
312		4.3.1.1	Fix d0srv065 storage issues	MD	MD	
313		4.3.1.2	Run D0 Primary Prod to verify storage fix	MD	MD	
314		4.3.1.3	Scale-up D0 Primary Prod to 200 nodes	MD	MD	
315		4.3.1.4	milestone: D0PPF Stable Ops: Commissioning follow-up completed	MD	MD	
316		4.3.2	<b>Management Processes and Documentation</b>	MD		
317		4.3.2.1	Implement Change Management for feature requests using SAM IssueTracker	MD		
318		4.3.2.2	Establish service level for stable operations and implications on system config	MD	GG,PM,JS	
319		4.3.2.3	Grid Production System workflow/dataflow diagram	MD	EXT	
320		4.3.2.4	Grid Production System info on diagram: node roles, software, maintainers	MD	EXT	
321		4.3.2.5	Open Science Enclave baseline security plan - implications on SamGrid, CAB	MD	DD,GG,FEF	
322		4.3.2.6	Job State diagram with most common error state causes	MD	PM	
323		4.3.2.7	milestone: D0PPF Stable Ops: Management Processes and Documentation done	MD		
324		4.3.3	<b>System Monitoring</b>	MD		
325		4.3.3.1	CAB web monitoring changes requested by MD,JS	MD	EXT	
326		4.3.3.2	Improve job monitoring, include trend plots	MD	EXT	
327		4.3.3.3	Augment Job States to be more meaningful to large customer	GG	PM	
328		4.3.3.4	milestone: D0PPF Stable Ops: System Monitoring done	MD		
329		4.3.4	<b>Specific System Services Issues</b>	MD		
330		4.3.4.1	Allow access by MD to dir/files on CAB owned by dzeropro (we suggest getting root access)	MD	MD	
331		4.3.4.2	JIM production release consistent with d0runjob v7-7-3 and higher	MD	MD	
332		4.3.4.3	Use ResS (more flexible than use of roles)	GG	GG	
333		4.3.4.4	milestone: D0PPF Stable Ops: Specific System Services done	MD		
334		4.3.5	<b>General System Services Issues (Road to Operations)</b>	GG		
335		4.3.5.1	INPUT: (3.4.1) Standardize file system layout on SamGrid nodes	GG		

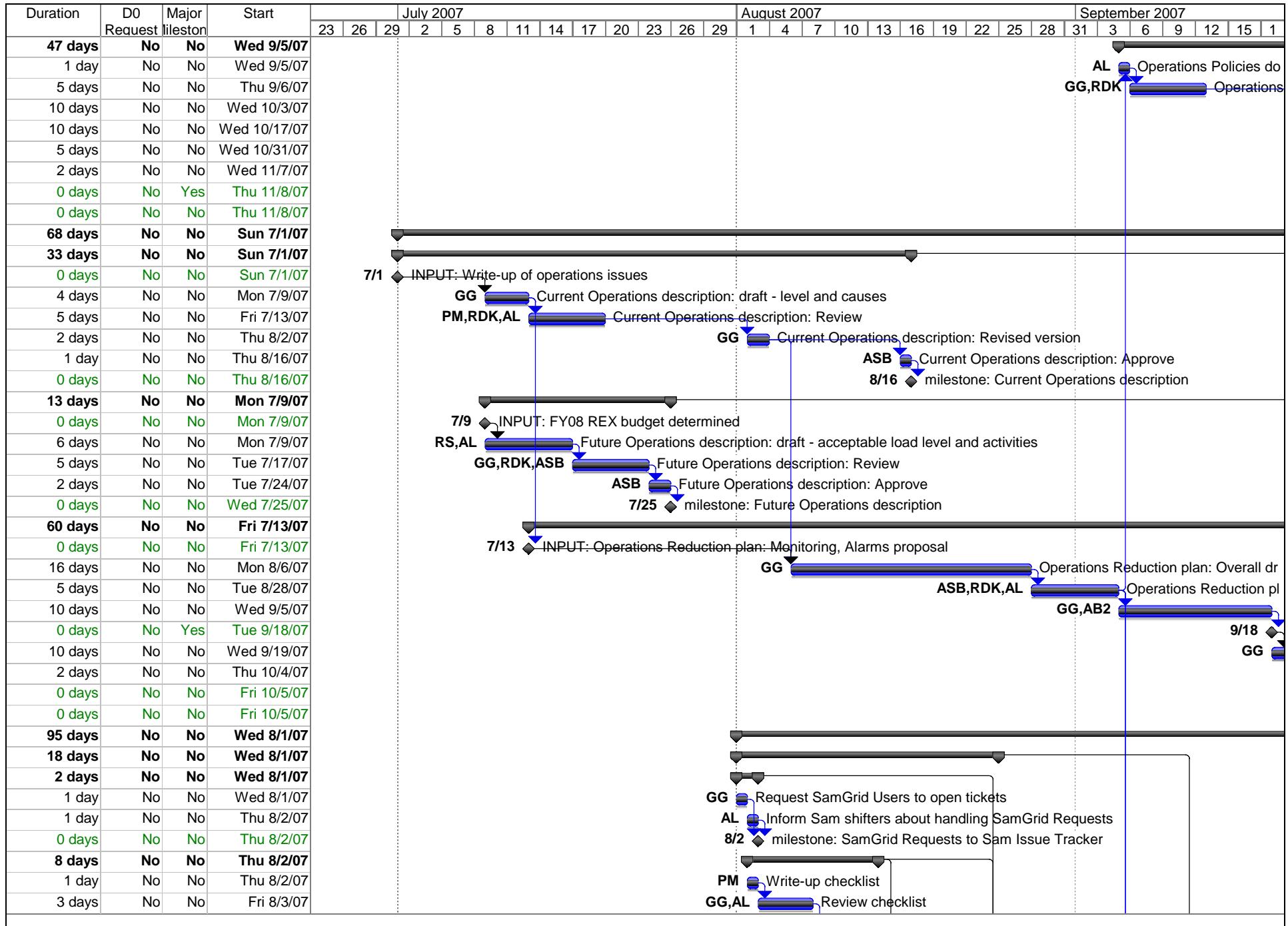
ID	WBS	Task Name	Contact	Resource Initials
336	4.3.5.2	INPUT: (3.4.1) Get all nodes governing operation in a consistent, known state	GG	
337	4.3.5.3	INPUT: (3.4.2.3) Evaluate how to reduce bandwidth consumed by moving logs	GG	
338	✓ 4.3.5.4	INPUT: (3.4.2.3.1) Make Custom output support smarter, use compression INPUT: (3.4.2.3.2) Migrate Custom output support from SAM wrapper to D0runjob	GG	AB2
339	4.3.5.5	INPUT: (3.4.2.3.2) Migrate Custom output support from SAM wrapper to D0runjob	GG	
340	4.3.5.6	INPUT: (3.4.2.3.3) Implement a logfile archive node	GG	
341	4.3.5.7	milestone: D0PPF Stable Ops: General System Services done	GG	
342	4.3.6	<b>Stable Operations Service Challenge</b>	MD	
343	4.3.6.1	Define conditions of challenge	MD	MD
344	✉ 4.3.6.2	Service Challenge execution	MD	MD
345	4.3.6.3	Service Challenge evaluation	MD	
346	4.3.6.4	milestone: Service Challenge completed	MD	
347	4.3.7	<b>MILESTONE: D0 Primary Production Stable on Fermigrid</b>	MD	
348	4.4	D0PPF Operations Evaluation Meeting	RDK	
349	4.5	<b>Optimize Performance (LOW PRI)</b>	MD	
350	4.5.1	Establish service level for optimal performance and implications on system config	GG	GG,PM,JS
351	✉ 4.5.2	Replicate dedicated Forwarding nodes for D0PPF	GG	
352	✉ 4.5.3	Replicate Queuing role on samgrid to more nodes	GG	
353	4.5.4	Evaluate addition of Durable Location node(s)	GG	
354	4.5.5	Simplify/centralize configuration management	GG	
355	4.5.6	INPUT: (3.4.4.2) Evaluate use of Condor-Quill to improve query performance	GG	
356	4.5.7	milestone: D0 Primary Production performant on Fermigrid	MD	
357	4.6	D0PPF Performance Evaluation Meeting	RDK	
358	4.7	<b>MILESTONE: D0 Primary Production stable,performant on Fermigrid</b>	MD	
359	✉ 5	<b>Extend Grid Production System Functionality</b>	GG	
360	✓ ✉ 5.1	<b>Forwarding Node Behind Firewall</b>	GG	
361	✓ 5.1.1	Evaluate effort required, determine best course of action	GG	AB2
362	5.2	<b>Minimal Resource Brokering</b>	GG	
363	5.2.1	Evaluate request, determine best course of action	GG	GG
364	5.3	<b>MILESTONE: Grid Production System functionality completed</b>	GG	
365	✉ 6	<b>Preparation of D0 Apps for Long-term</b>	ASB	
366	6.1	<b>Skimming</b>	HG	
367	6.1.1	Productize Skimming	HG	
368	6.2	<b>CAF Trees</b>		
369	6.2.1	Productize CAF Tree generation	HG	
370	6.3	<b>Raw2Sim</b>		
371	6.3.1	Productize Raw2Sim		
372	6.4	<b>AADST</b>		
373	6.4.1	Productize AADST		
374	6.5	milestone: Achieve deployment or functionality necessary to support future deployment	ASB	
375	✉ 7	<b>Evaluation of D0 SamGrid Requests</b>	ASB	
376	7.1	<b>Reco</b>		
377	7.1.1	Ability to merge more than 1 stream from Reco		

ID		WBS	Task Name	Contact	Resource Initials	
378		7.2	<b>MC Production</b>			
379		7.2.1	Ability to run TrigSim in MC Production			
380		7.3	<b>Skimming</b>			
381		7.3.1	Skimming in Production			
382		7.4	Fixing			
383		7.5	<b>Raw2Sim</b>			
384		7.5.1	Run raw2sim on minbias files			
385		7.6	<b>Reco-cert</b>			
386		7.6.1	Merging of reco-cert files			
387		7.6.2	<b>Stand-alone production of reco-cert output</b>			
388		7.6.2.1	Develop WBS for implementing this capability	RDK	RDK	
389		7.7	<b>CAF Trees</b>			
390		7.7.1	CAF Trees from Production			
391		7.8	MC CAF Trees			
392		7.9	AADST			
393		7.10	Grid Analysis			
394		7.11	milestone: Evaluation of work necessary for future deployment	ASB		
395		8	<b>Project Management</b>	RDK		
396		8.1	INPUT: Draft Preliminary High-level WBS	RDK	RDK	RDK
397		8.2	<b>Initiative Coordination Meeting</b>	RDK		
398		8.2.1	Initiative Coordination Meeting 1	RDK		
399		8.2.2	Initiative Coordination Meeting 2	RDK		
400		8.2.3	Initiative Coordination Meeting 3	RDK		
401		8.2.4	Initiative Coordination Meeting 4	RDK		
402		8.2.5	Initiative Coordination Meeting 5	RDK		
403		8.2.6	Initiative Coordination Meeting 6	RDK		
404		8.2.7	Initiative Coordination Meeting 7	RDK		
405		8.2.8	Initiative Coordination Meeting 8	RDK		
406		8.2.9	Initiative Coordination Meeting 9	RDK		
407		8.2.10	Initiative Coordination Meeting 10	RDK		
408		8.2.11	Initiative Coordination Meeting 11	RDK		
409		8.2.12	Initiative Coordination Meeting 12	RDK		
410		8.2.13	Initiative Coordination Meeting 13	RDK		
411		8.2.14	Initiative Coordination Meeting 14	RDK		
412		8.2.15	Initiative Coordination Meeting 15	RDK		
413		8.3	<b>Project Planning</b>	RDK		
414		8.3.1	WBS/Schedule v0.8 for 3/7 objectives	RDK	RDK	
415		8.3.2	milestone: WBS/Schedule v0.8, begin weekly status'ing	RDK		
416		8.3.3	WBS/Schedule v0.9 for 5/7 objectives	RDK	RDK	
417		8.3.4	milestone: Plan v0.9 sufficient to drive near-term work	RDK		
418		8.3.5	Draft WBS/Schedule v1.0 for 7/7 objectives	RDK	RDK,GG	
419		8.3.6	Big Baseline Planning Meeting	RDK		

ID		WBS	Task Name	Contact	Resource Initials	
420		8.3.7	Baseline Project Plan v1.0	RDK	RDK	
421			<b>8.3.8 MILESTONE: Baseline Project Plan v1.0</b>			RDK
422		8.3.9	Project Definition Document: Draft w/o WBS/Schedule	RDK	RDK	
423		8.3.10	Project Execution Plan: Draft w/o WBS/Schedule	RDK	RDK	
424		8.3.11	Baseline Plan: Integrate components, feed-back, update draft v1.1	RDK	RDK	
425		8.3.12	Baseline Plan: Approval by ABS, CD	RDK	RDK,ASB	
426			<b>8.3.13 MILESTONE: Project Plan v1.1 w/supporting PM docs</b>			RDK
427		<b>8.4</b>	<b>Project Administration</b>			RDK
428		8.4.1	Planning Phase (Level of Effort = 5%)	RDK	RDK	
429		8.4.2	Execution Phase (Level of Effort = 15%)	RDK	RDK	
430		<b>8.5</b>	<b>Project Close-out</b>			RDK
431		8.5.1	Project Close-out Meeting	RDK	RDK	
432		8.5.2	Project Close-out Report	RDK	RDK	
433		8.5.3	Project Close-out Report Approval: ABS, CD	RDK	RDK,ASB	
434		8.5.4	Archive project artifacts	RDK	RDK	
435		8.5.5	<b>milestone: Initiative Closed-out</b>			RDK
436		9	<b>MILESTONE: Initiative completed</b>			ASB







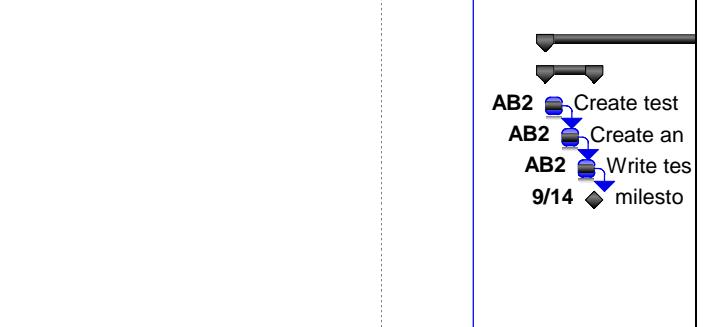
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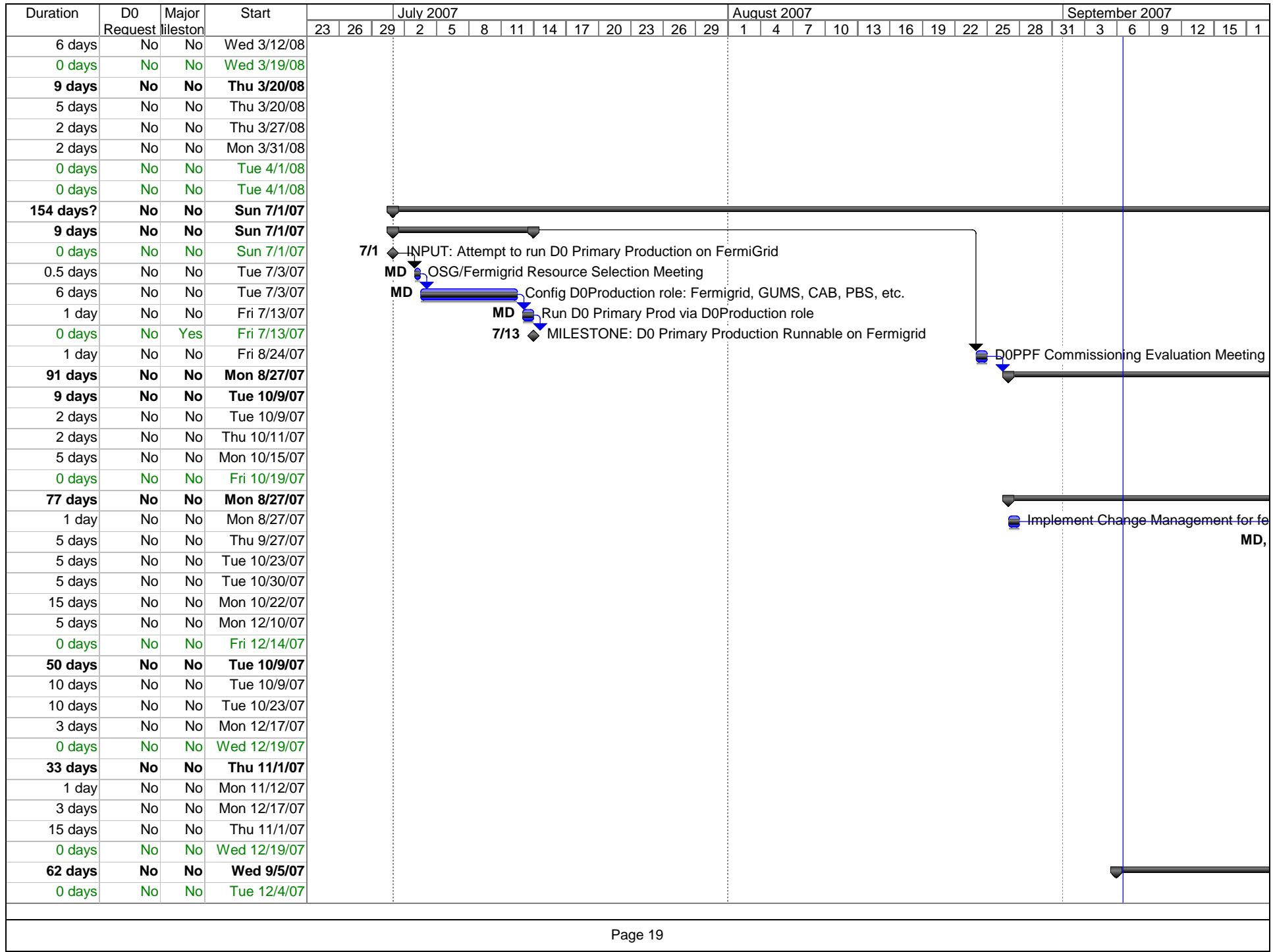
PM Revise checklist  
PM,AL Checklist training, trial run  
PM Fine-tune checklist per feed-back  
8/13 milestone: SamGrid Operations Checklist Transferred  
AL Adapt to Ops-oriented format  
GG,AB2 Review, sign-off by GG, AB2  
8/24 milestone: Adapt Operations Checklist to Phase 1 of Operations Tran  
DEV,REX DEV,REX  
PM New VDT: VDT-oriented Testbed setup  
PM  
GG,AL Reach  
PM  
FEF

Duration	D0 Request	Major Mileston	Start	July 2007												August 2007								September 2007														
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25 days	No	No	Mon 9/24/07																															
10 days	No	No	Mon 9/24/07																															

Duration	D0 Request	Major Mileston	Start	July 2007												August 2007												September 2007										
				23	26	29	2	5	8	11	14	17	20	23	26	29	1	4	7	10	13	16	19	22	25	28	31	3	6	9	12	15	1					
10 days	No	No	Mon 10/8/07																																			
1 day	No	No	Mon 10/22/07																																			
1 day	No	No	Tue 10/23/07																																			
1 day	No	No	Wed 10/24/07																																			
1 day	No	No	Thu 10/25/07																																			
1 day	No	No	Fri 10/26/07																																			
0 days	No	No	Fri 10/26/07																																			
<b>4.5 days</b>	<b>No</b>	<b>No</b>	<b>Mon 10/29/07</b>																																			
1 day	No	No	Mon 10/29/07																																			
2 days	No	No	Tue 10/30/07																																			
1.5 days	No	No	Thu 11/1/07																																			
0 days	No	No	Fri 11/2/07																																			
0 days	No	No	Fri 11/2/07																																			
2 days	No	No	Mon 11/5/07																																			
5 days	No	No	Wed 11/7/07																																			
10 days	No	No	Wed 11/14/07																																			
0 days	No	Yes	Thu 11/29/07																																			
<b>86 days</b>	<b>No</b>	<b>No</b>	<b>Tue 9/11/07</b>																																			
<b>3 days</b>	<b>No</b>	<b>No</b>	<b>Tue 9/11/07</b>																																			
1 day	No	No	Tue 9/11/07																																			
1 day	No	No	Wed 9/12/07																																			
1 day	No	No	Thu 9/13/07																																			
0 days	No	No	Fri 9/14/07																																			
<b>25 days</b>	<b>No</b>	<b>No</b>	<b>Fri 12/7/07</b>																																			
10 days	No	No	Fri 12/7/07																																			
10 days	No	No	Fri 12/21/07																																			
5 days	No	No	Thu 1/10/08																																			
0 days	No	No	Wed 1/16/08																																			
0 days	No	No	Wed 1/16/08																																			
<b>7 days</b>	<b>No</b>	<b>No</b>	<b>Tue 1/22/08</b>																																			
7 days	No	No	Tue 1/22/08																																			
7 days	No	No	Tue 1/22/08																																			
0 days	No	Yes	Wed 1/30/08																																			
<b>159 days</b>	<b>No</b>	<b>No</b>	<b>Mon 8/13/07</b>																																			
5 days	No	No	Mon 8/13/07																																			
<b>20 days</b>	<b>No</b>	<b>No</b>	<b>Tue 1/29/08</b>																																			
5 days	No	No	Tue 1/29/08																																			
15 days	No	No	Tue 2/5/08																																			
<b>17 days</b>	<b>No</b>	<b>No</b>	<b>Tue 2/26/08</b>																																			
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3 days	No	No	Thu 2/28/08																																			
6 days	No	No	Tue 3/4/08																																			

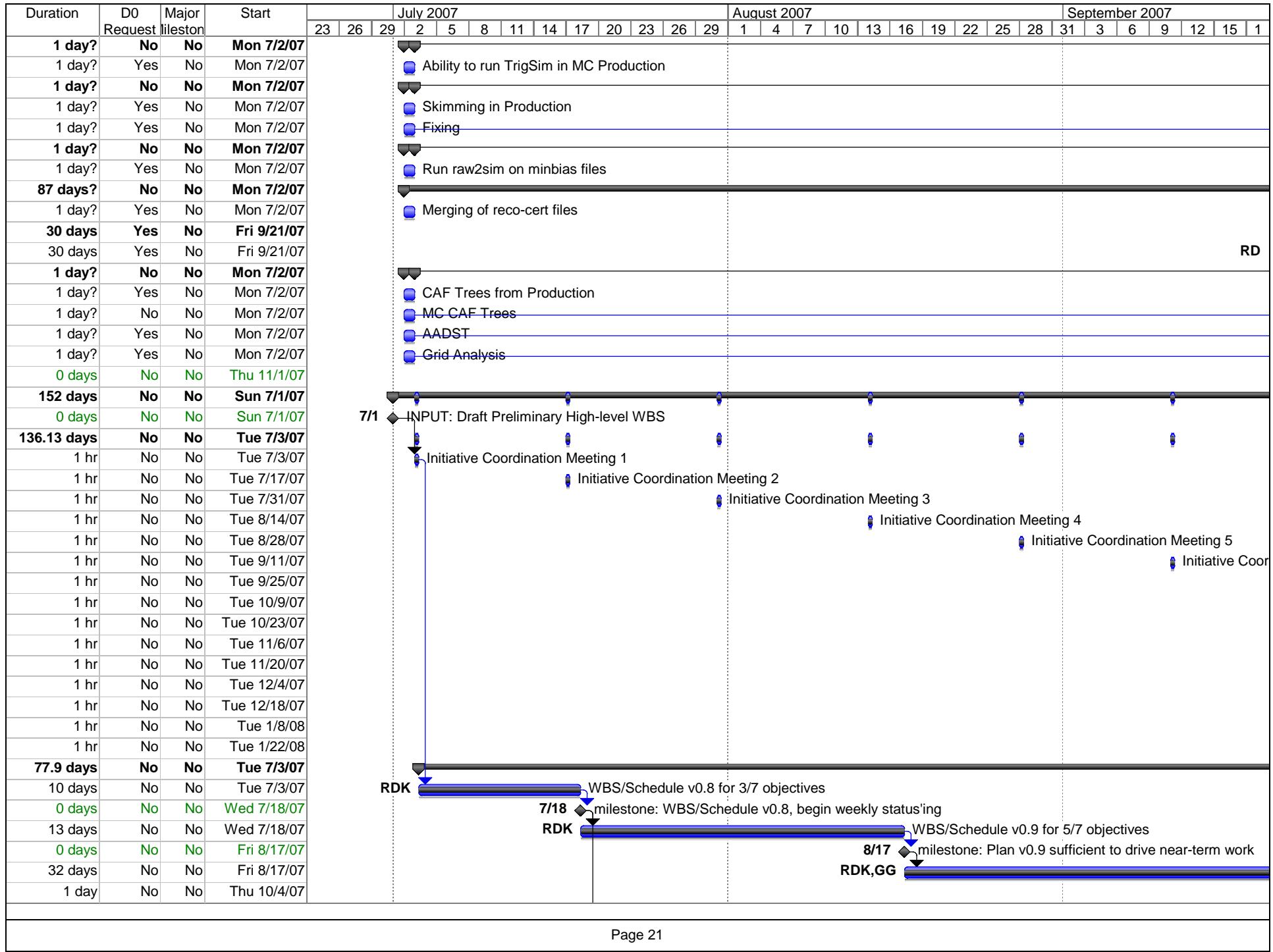




Duration	D0 Request	Major Mileston	Start	July 2007												August 2007								September 2007												
				23	26	29	2	5	8	11	14	17	20	23	26	29	1	4	7	10	13	16	19	22	25	28	31	3	6	9	12	15	1			
0 days	No	No	Tue 12/4/07																																	
0 days	No	No	Thu 11/1/07																																	
0 days	No	No	Wed 9/5/07																																	
0 days	No	No	Thu 11/1/07																																	
0 days	No	No	Mon 10/15/07																																	
0 days	No	No	Tue 12/4/07																																	
<b>11 days</b>	<b>No</b>	<b>No</b>	<b>Thu 12/20/07</b>																																	
1 day	No	No	Thu 12/20/07																																	
7 days	No	No	Fri 12/21/07																																	
3 days	No	No	Mon 1/7/08																																	
0 days	No	No	Wed 1/9/08																																	
0 days	No	Yes	Wed 1/9/08																																	
1 day	No	No	Thu 1/10/08																																	
<b>22 days?</b>	<b>No</b>	<b>No</b>	<b>Thu 1/10/08</b>																																	
5 days	No	No	Fri 1/11/08																																	
3 days	No	No	Fri 1/18/08																																	
3 days	No	No	Thu 1/24/08																																	
1 day?	No	No	Tue 1/29/08																																	
10 days	No	No	Wed 1/30/08																																	
0 days	No	No	Thu 1/10/08																																	
0 days	No	No	Tue 2/12/08																																	
1 day	No	No	Wed 2/13/08																																	
0 days	No	No	Wed 2/13/08																																	
<b>67 days</b>	<b>No</b>	<b>No</b>	<b>Wed 8/15/07</b>																																	
<b>5 days</b>	<b>No</b>	<b>No</b>	<b>Wed 8/15/07</b>																																	
5 days	No	No	Wed 8/15/07																																	
<b>10 days</b>	<b>Yes</b>	<b>No</b>	<b>Mon 11/5/07</b>																																	
10 days	No	No	Mon 11/5/07																																	
0 days	No	Yes	Fri 11/16/07																																	
<b>21 days?</b>	<b>No</b>	<b>No</b>	<b>Mon 7/2/07</b>																																	
1 day?	No	No	Mon 7/30/07																																	
1 day?	No	No	Mon 7/30/07																																	
<b>1 day?</b>	<b>No</b>	<b>No</b>	<b>Tue 7/31/07</b>																																	
1 day?	No	No	Tue 7/31/07																																	
<b>1 day?</b>	<b>No</b>	<b>No</b>	<b>Mon 7/2/07</b>																																	
1 day?	No	No	Mon 7/2/07																																	
<b>1 day?</b>	<b>No</b>	<b>No</b>	<b>Mon 7/2/07</b>																																	
1 day?	No	No	Mon 7/2/07																																	
<b>0 days</b>	<b>No</b>	<b>No</b>	<b>Tue 7/31/07</b>																																	
<b>87 days?</b>	<b>No</b>	<b>No</b>	<b>Mon 7/2/07</b>																																	
<b>1 day?</b>	<b>No</b>	<b>No</b>	<b>Mon 7/2/07</b>																																	
1 day?	Yes	No	Mon 7/2/07																																	

The Gantt chart illustrates the timeline and dependencies for various tasks and milestones. Key elements include:

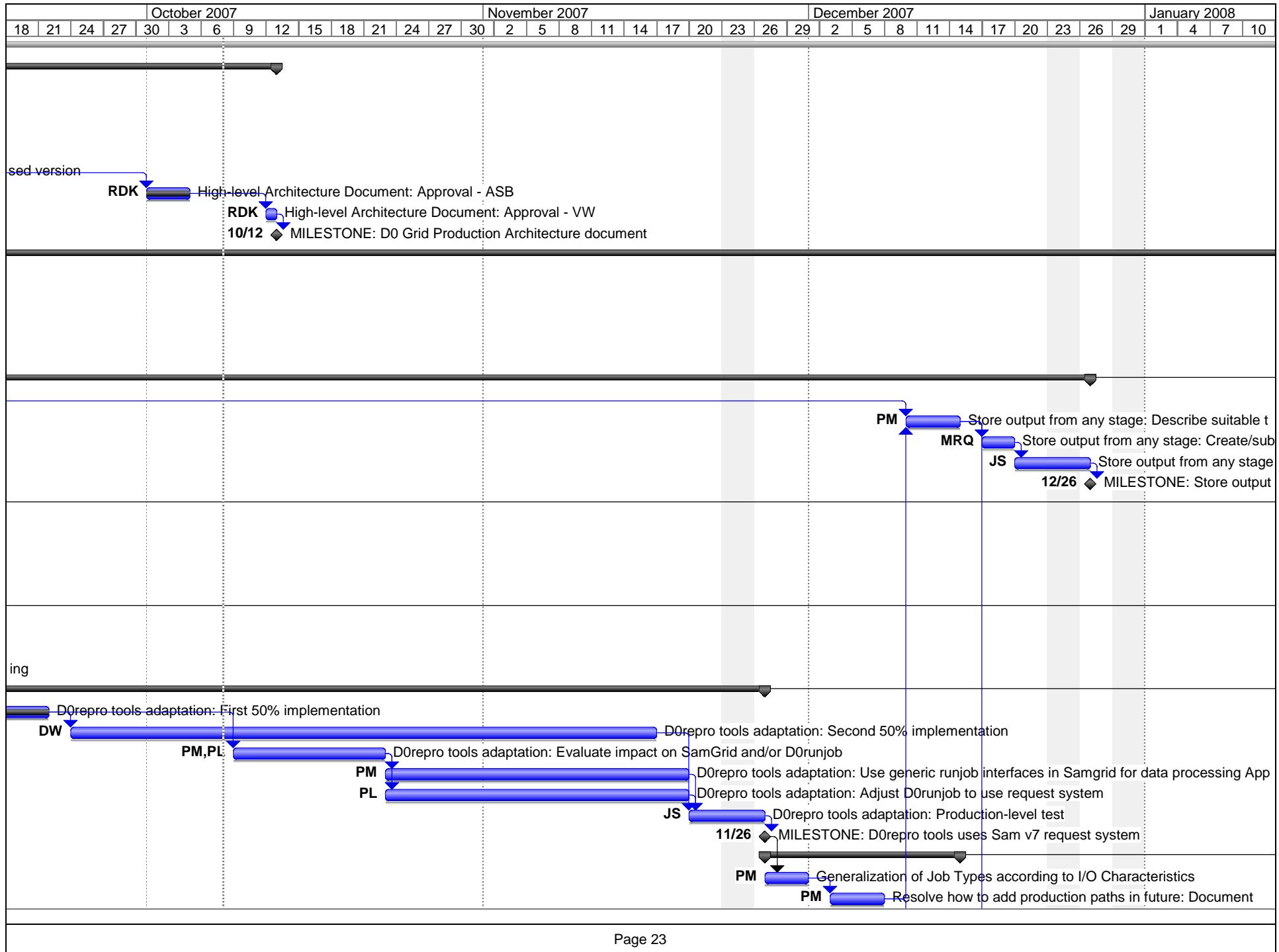
- AB2**: Task starting around July 26, 2007, with a duration of approximately 67 days.
- Productize Skimming**, **Productize CAF Tree generation**, **Productize Raw2Sim**, and **Productize AADST**: Sub-tasks of AB2, each starting on July 31, 2007.
- Ability to merge more than 1 stream from Reco**: Task starting around August 23, 2007.
- Milestone: Achieve deployment or functionality necessary to support future deployment**: Set for July 31, 2007.
- INPUT: (3.4.2.3.1) Ma**: Milestone set for September 5, 2007.

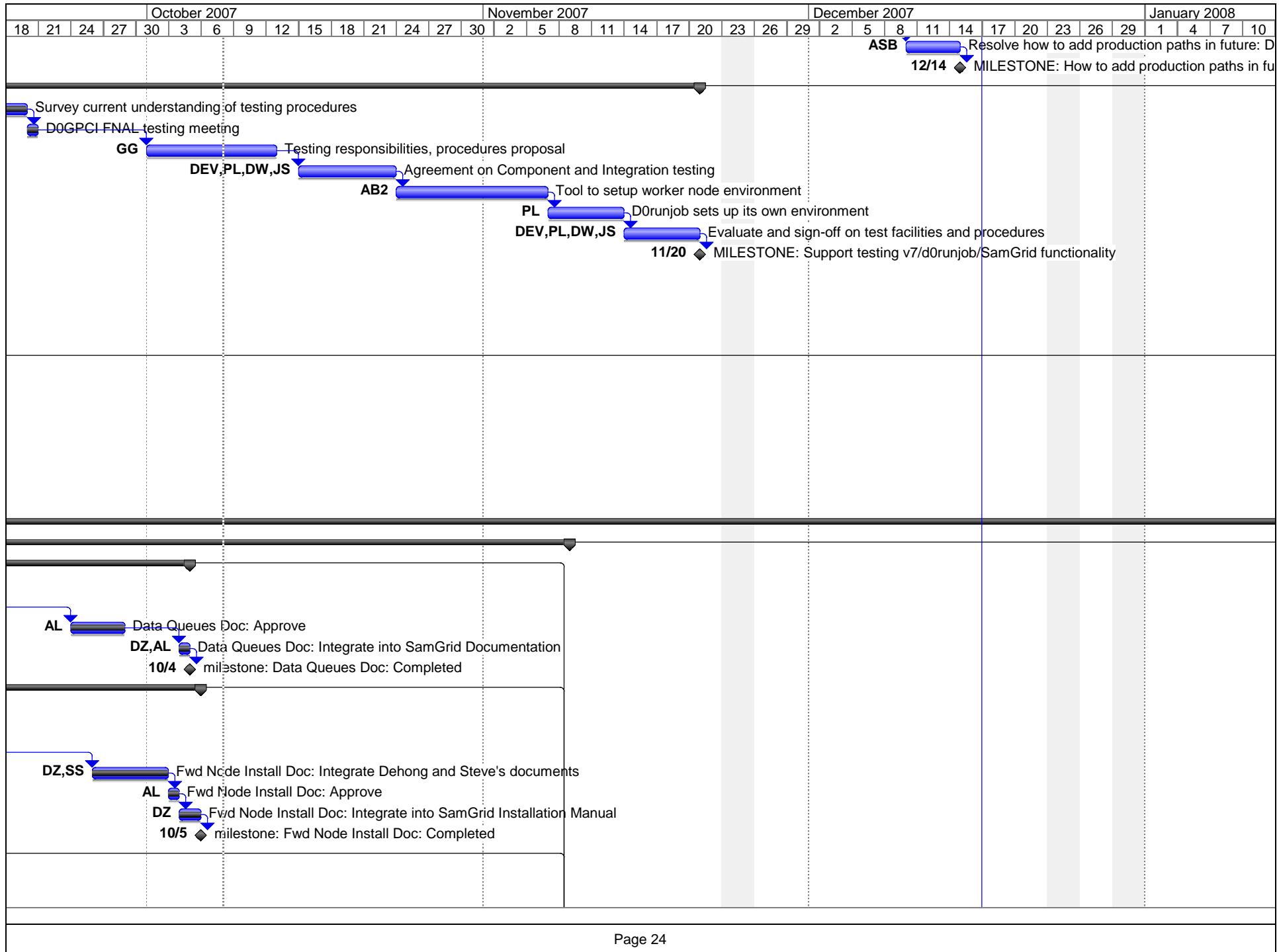


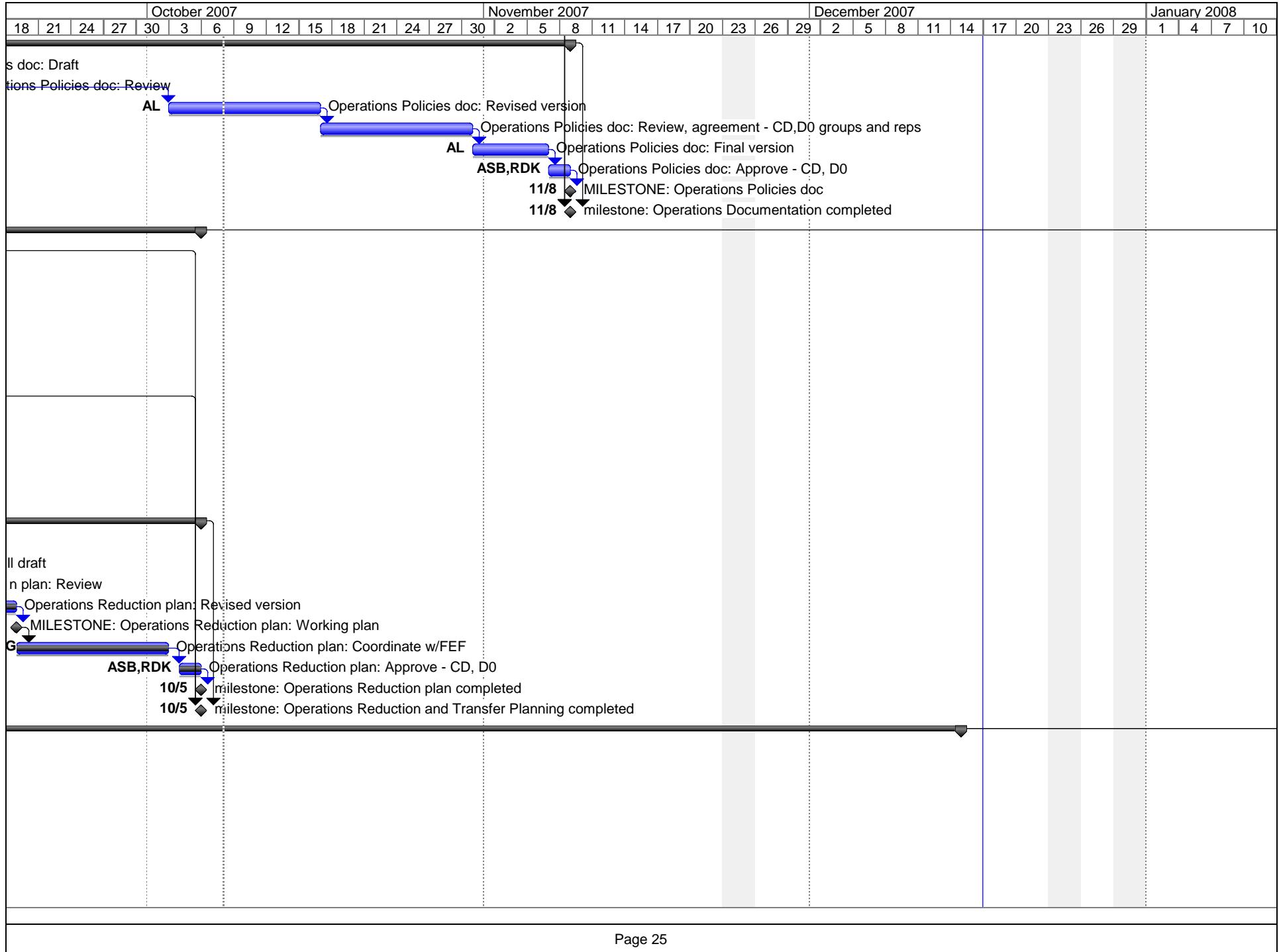
Duration	D0 Request	Major Mileston	Start	July 2007												August 2007								September 2007										
				23	26	29	2	5	8	11	14	17	20	23	26	29	1	4	7	10	13	16	19	22	25	28	31	3	6	9	12	15	1	
2 days	No	No	Fri 10/5/07																															
0 days	No	Yes	Mon 10/8/07																															
6 days	No	No	Tue 10/9/07																															
6 days	No	No	Tue 10/9/07																															
1 day	No	No	Wed 10/17/07																															
3 days	No	No	Thu 10/18/07																															
0 days	No	Yes	Mon 10/22/07																															
<b>133.9 days</b>	<b>No</b>	<b>No</b>	<b>Wed 7/18/07</b>																															
48 days	No	No	Wed 7/18/07																															
68 days	No	No	Tue 10/9/07																															
<b>7 days</b>	<b>No</b>	<b>No</b>	<b>Fri 2/1/08</b>																															
1 day	No	No	Fri 2/1/08																															
2 days	No	No	Mon 2/4/08																															
3 days	No	No	Wed 2/6/08																															
1 day	No	No	Mon 2/11/08																															
0 days	No	No	Mon 2/11/08																															
0 days	No	Yes	Mon 2/11/08																															

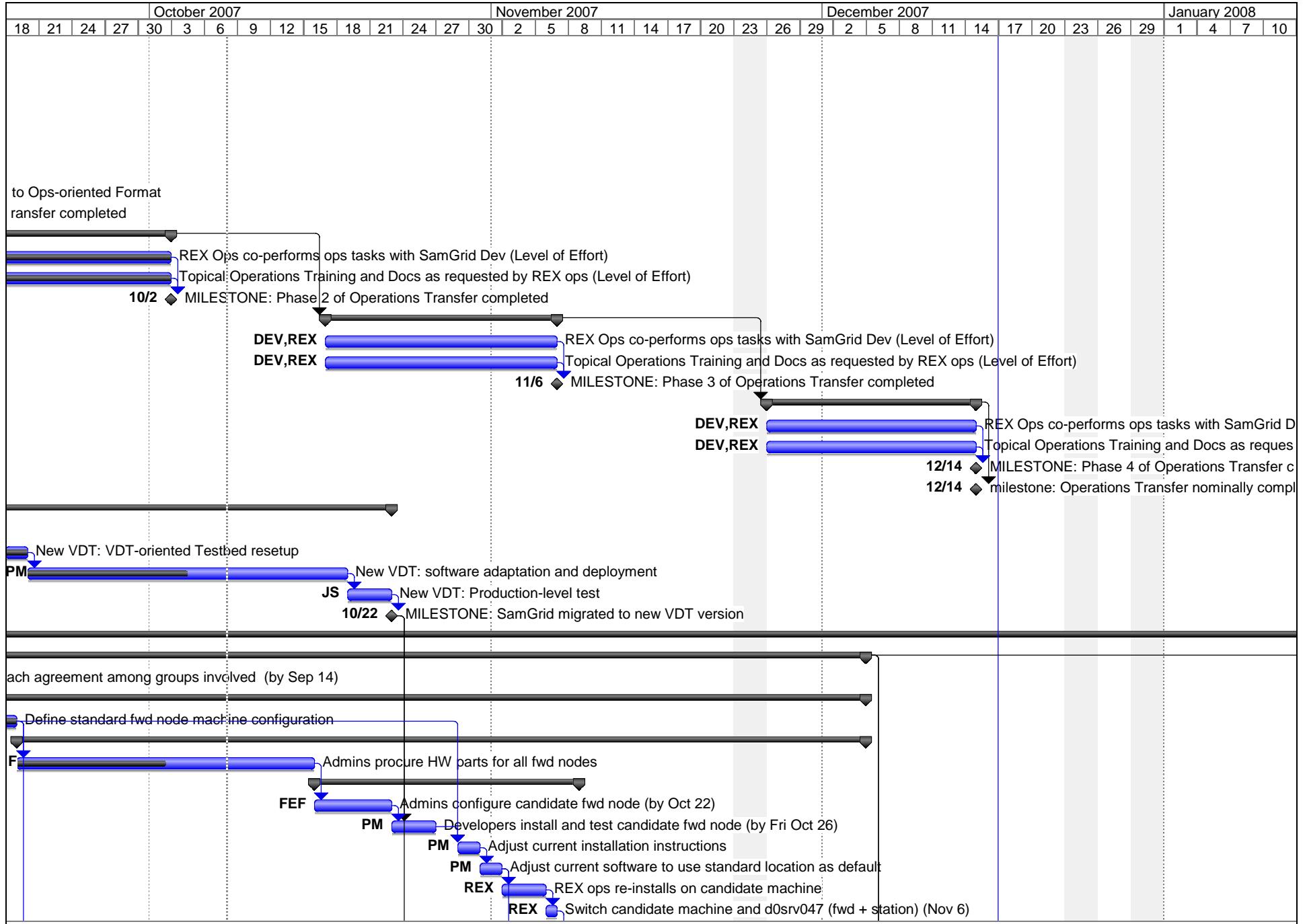
RDK

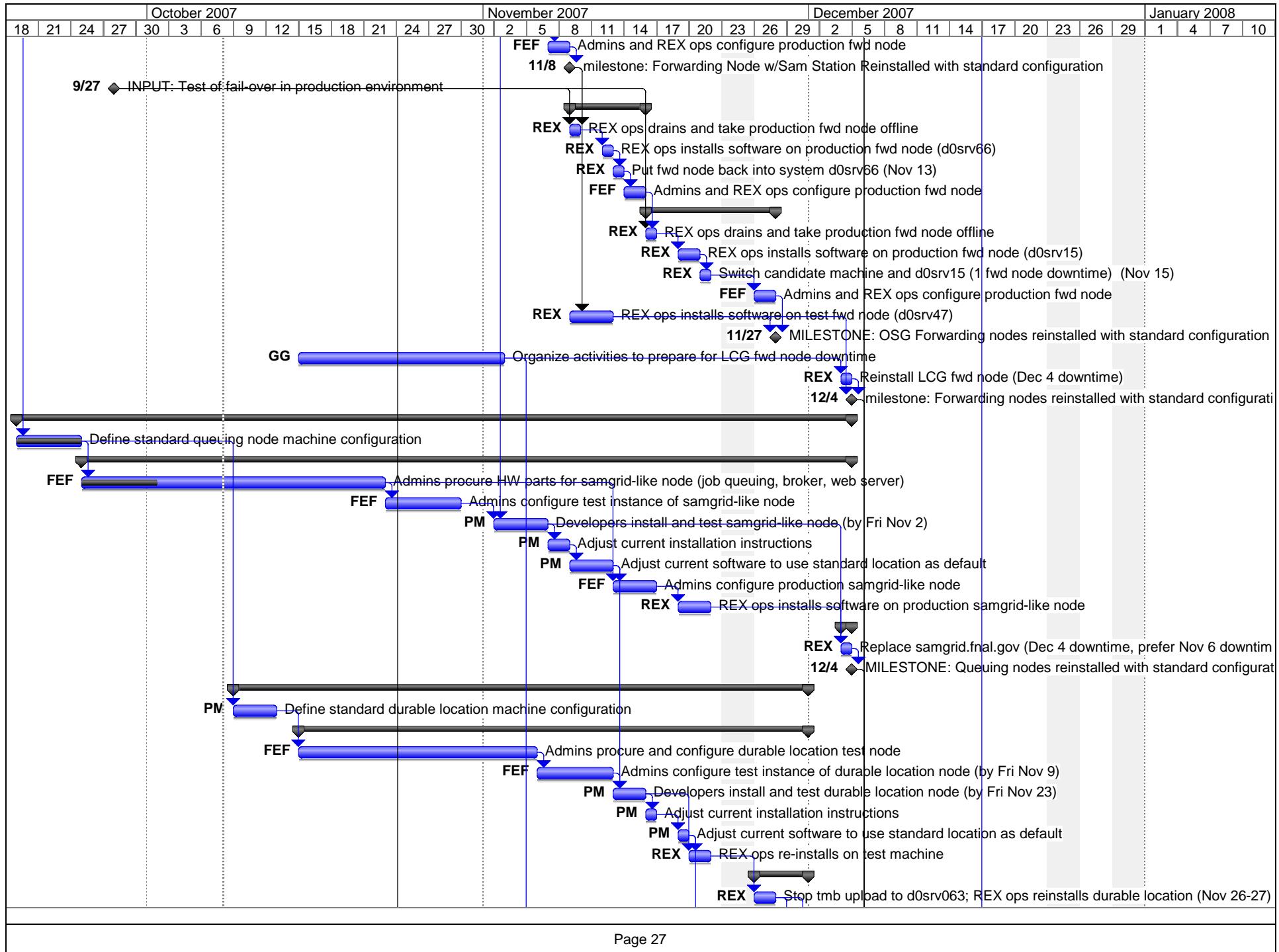












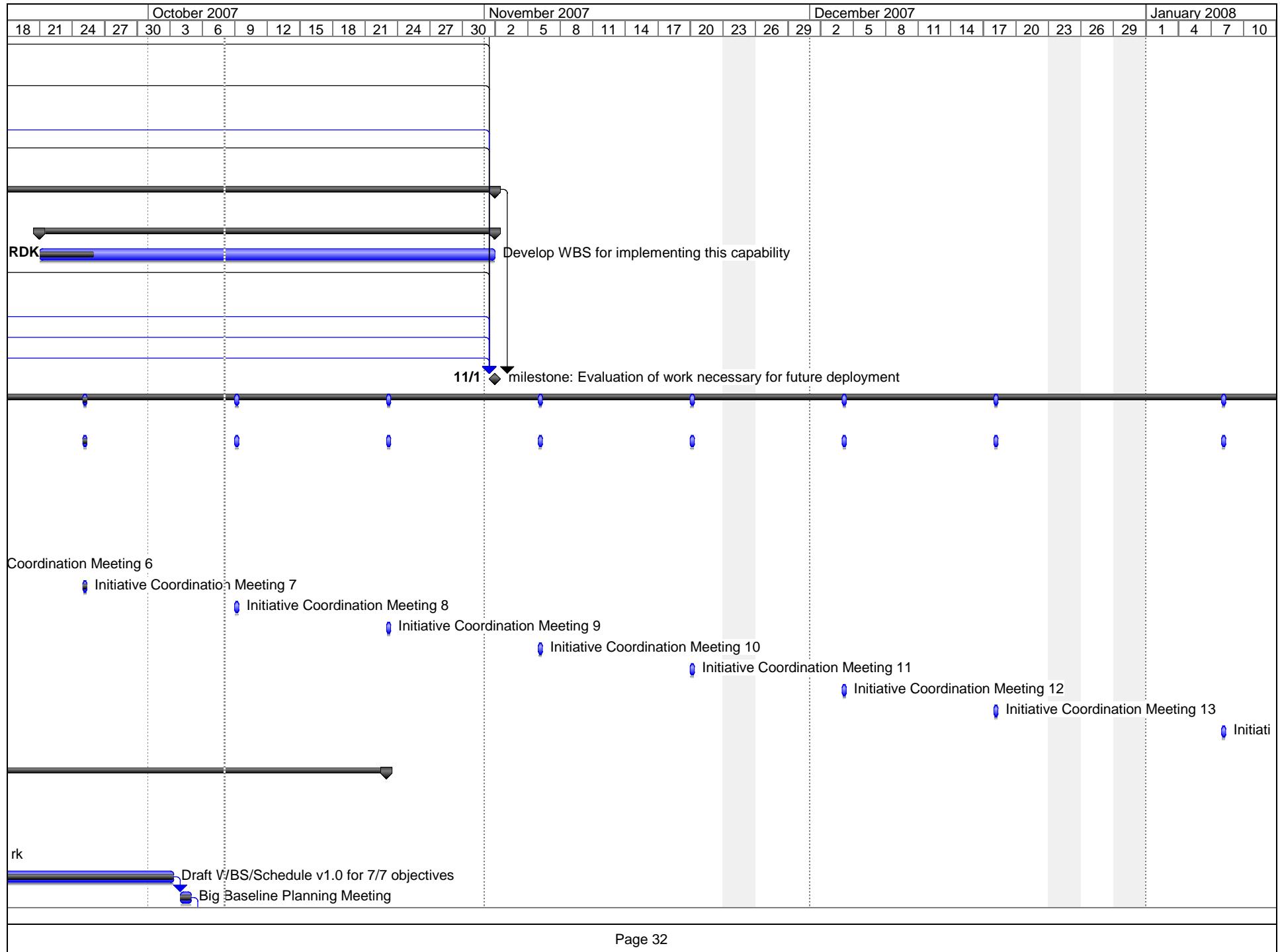


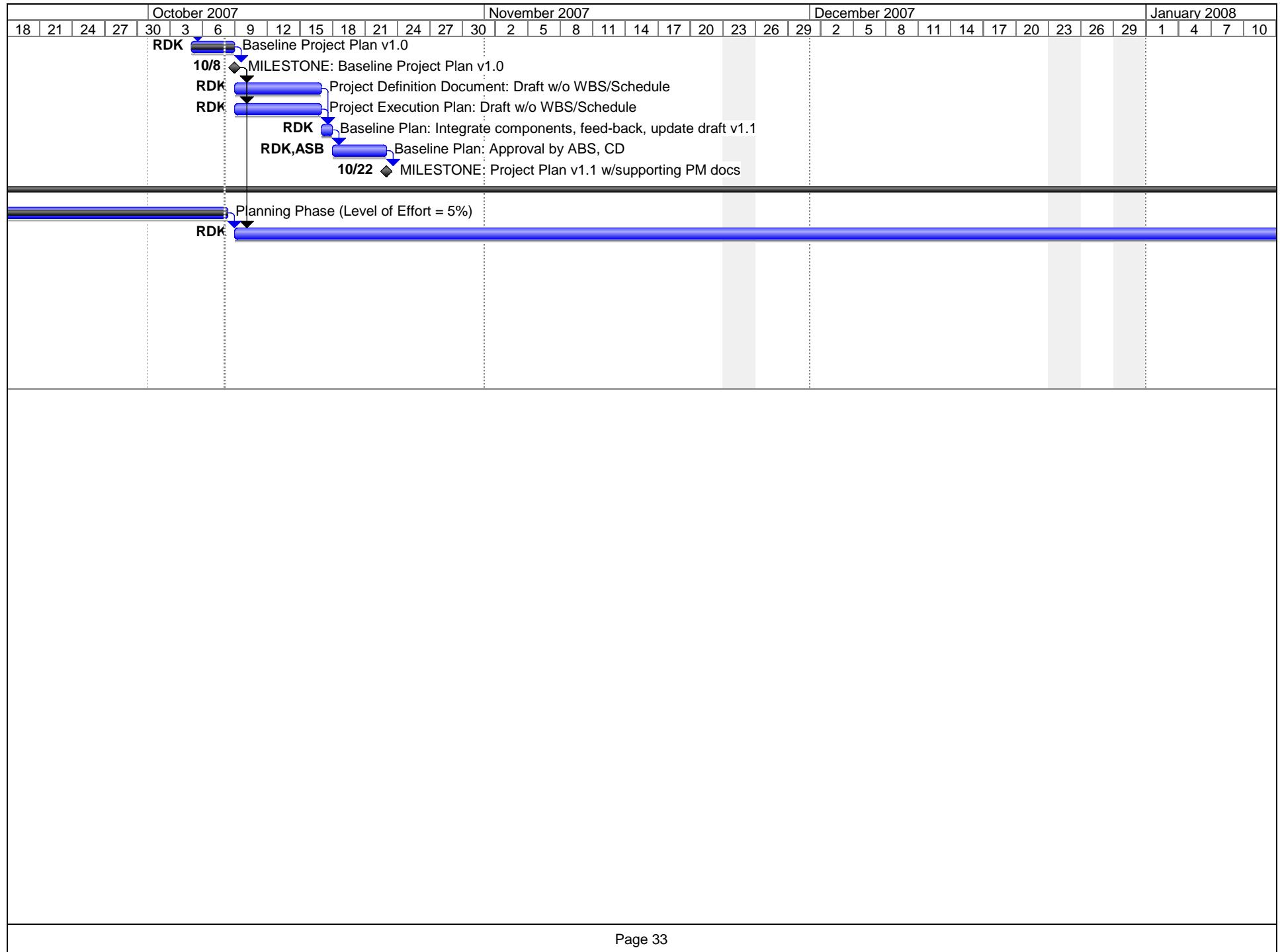


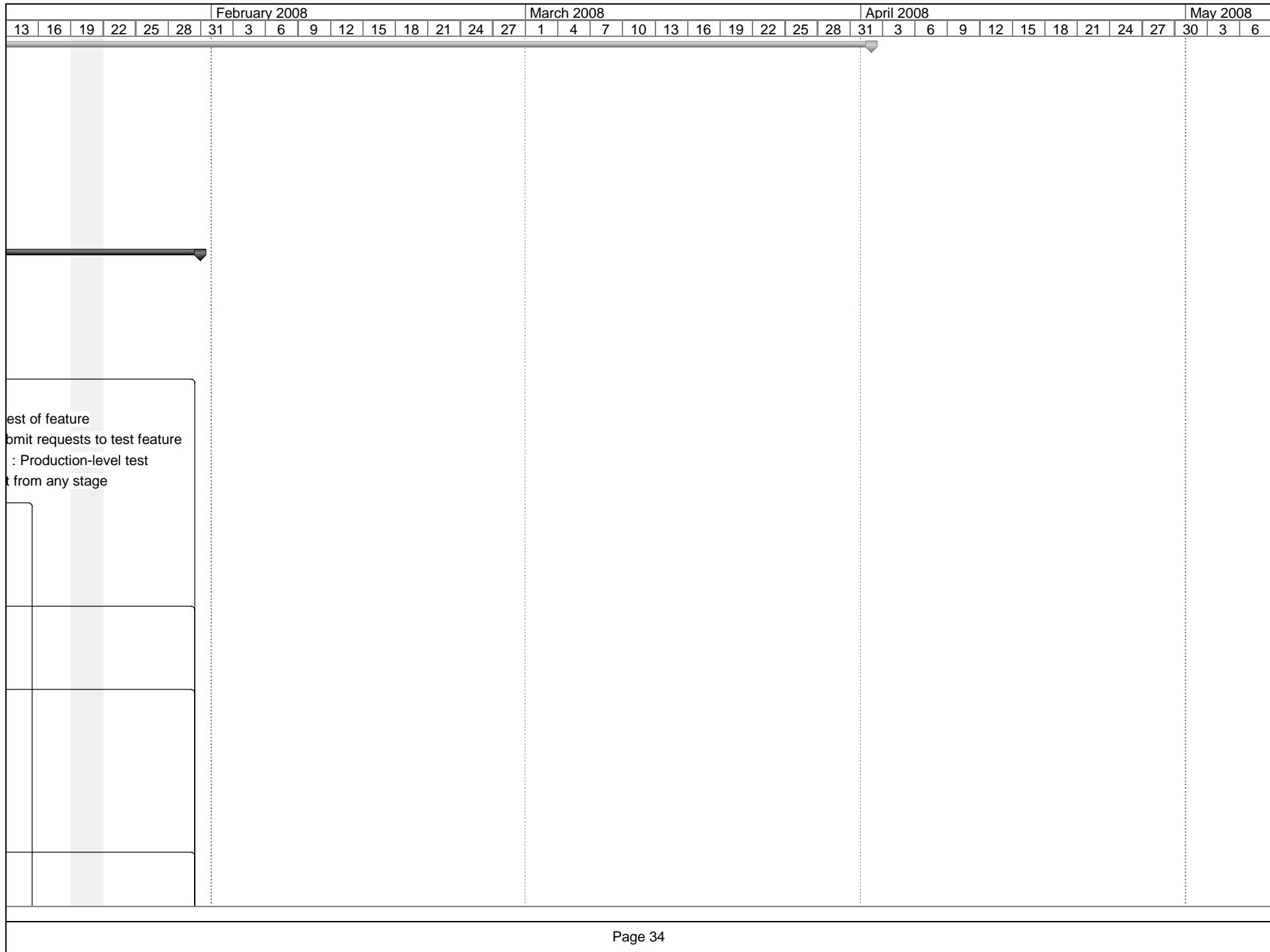
The Gantt chart illustrates the project timeline across five months. The tasks are color-coded by responsible team: MD (Management), EXT (External), GG (Grid Generation), PM (Production), and JS (Job System). Milestones are marked with diamonds.

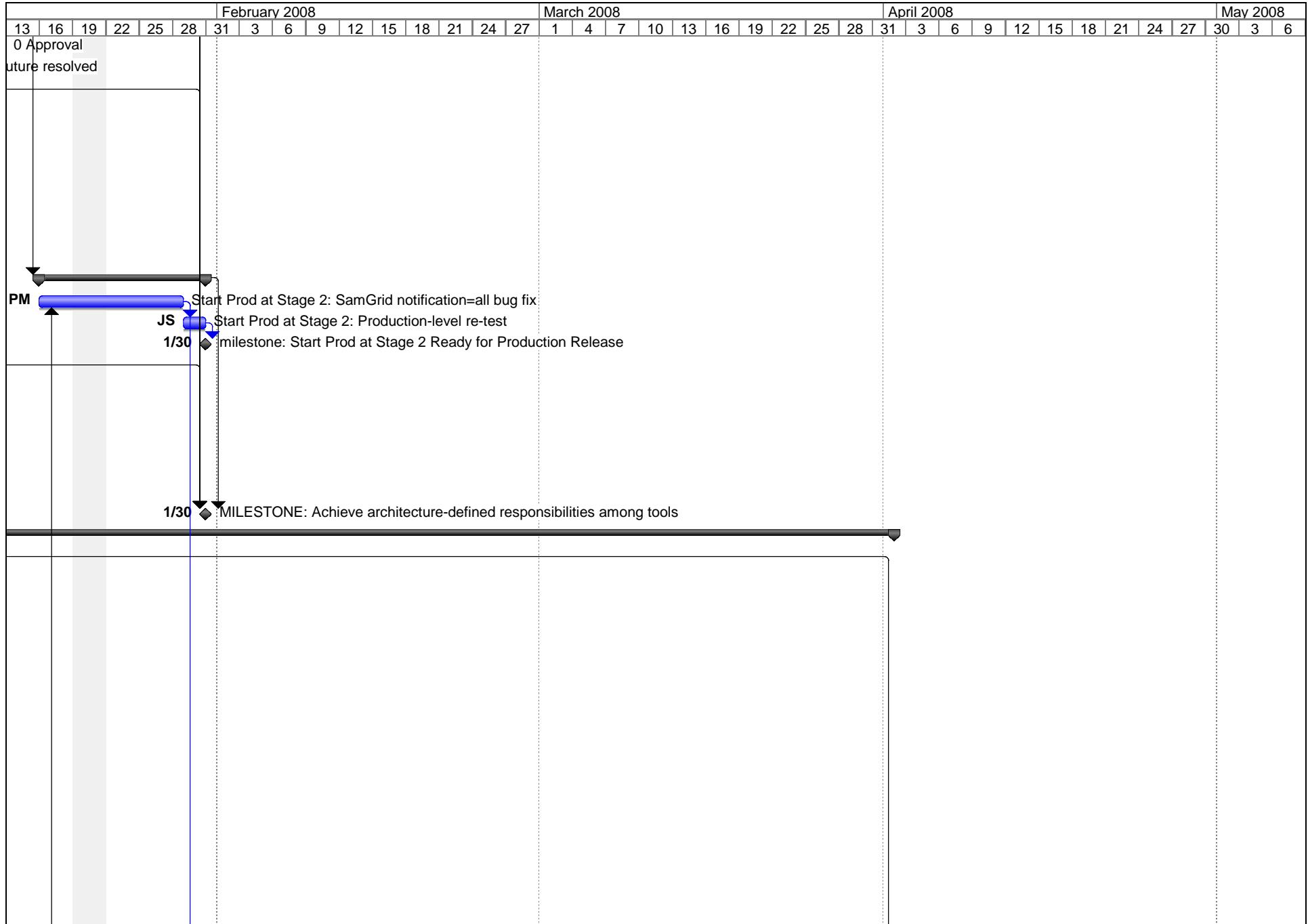
- October 2007:**
  - MD tasks: Fix d0srv065 storage issues, Run D0 Primary Prod to verify storage fix, Scale-up D0 Primary Prod to 200 nodes.
  - Milestone: 10/19 ◆ milestone: D0PPF Stable Ops: Commissioning follow-up completed
- November 2007:**
  - MD,GG,PM,JS task: Establish service level for stable operations and implications on system config.
  - EXT tasks: Grid Production System workflow/dataflow diagram, Grid Production System info on diagram: node roles, software, maintainers.
  - MD,GG,FEF task: Open Science Enclave baseline security plan - implications on SamGrid, CAB.
  - EXT task: Job State diagram with most common error state.
  - Milestone: 12/14 ◆ milestone: D0PPF Stable Ops: Management Plan
- December 2007:**
  - EXT tasks: CAB web monitoring changes requested by MD,JS, Improve job monitoring, include trend plots.
  - PM task: Augment Job States to be more meaningful.
  - Milestone: 12/19 ◆ milestone: D0PPF Stable Ops: System
  - MD task: Allow access by MD to dir/files on CAB owned by dzerojob (we suggest getting root access).
  - GG task: Use ResS (more flexible than use of roles).
  - MD task: JIM production release consistent with d
  - Milestone: 12/19 ◆ milestone: D0PPF Stable Ops: Specific
- January 2008:**
  - INPUT: (3.4.1) Standardize file system layout on SamGrid nodes.
  - Milestone: 12/4 ◆ INPUT: (3.4.1) Standardize file system layout on SamGrid nodes











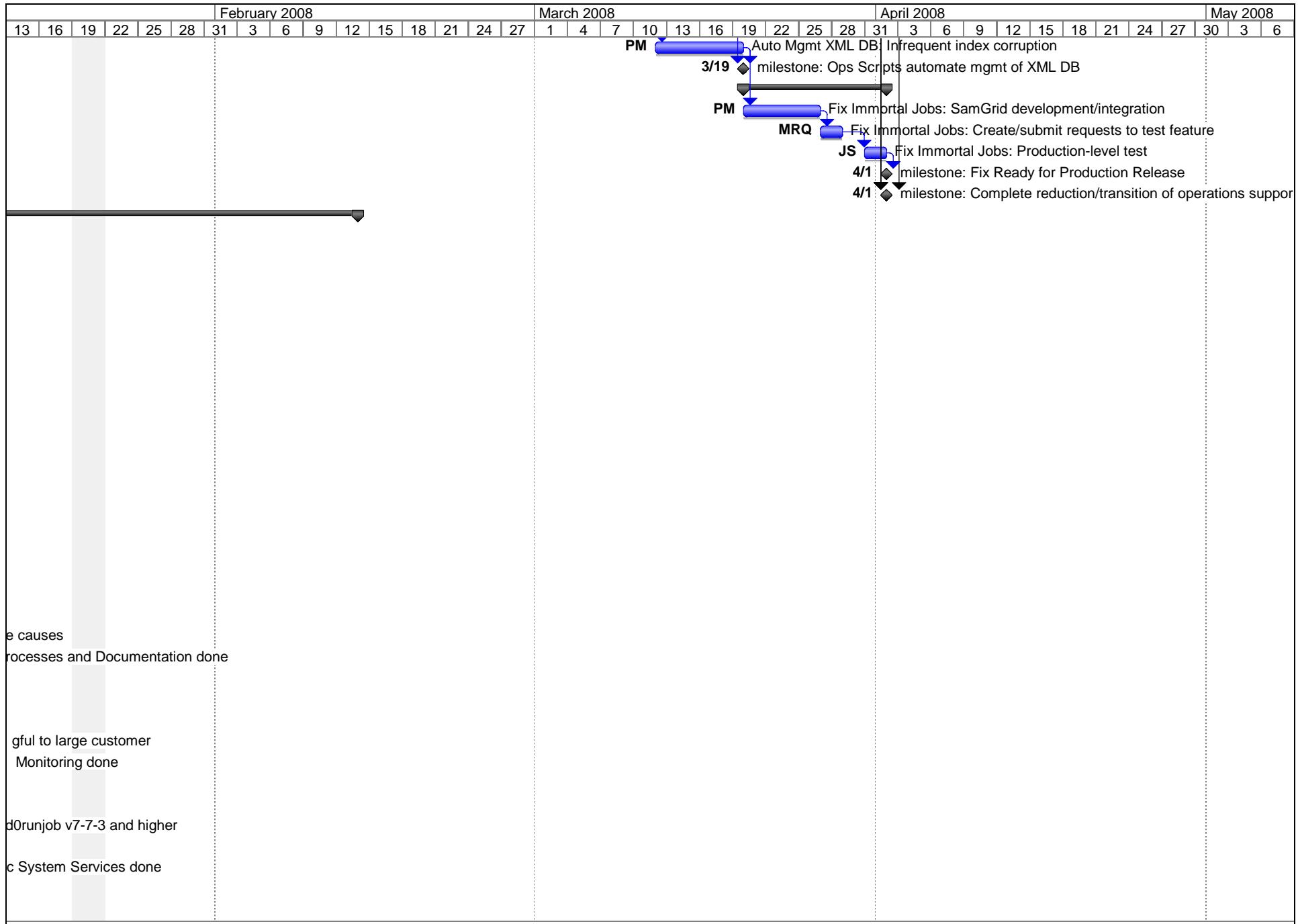


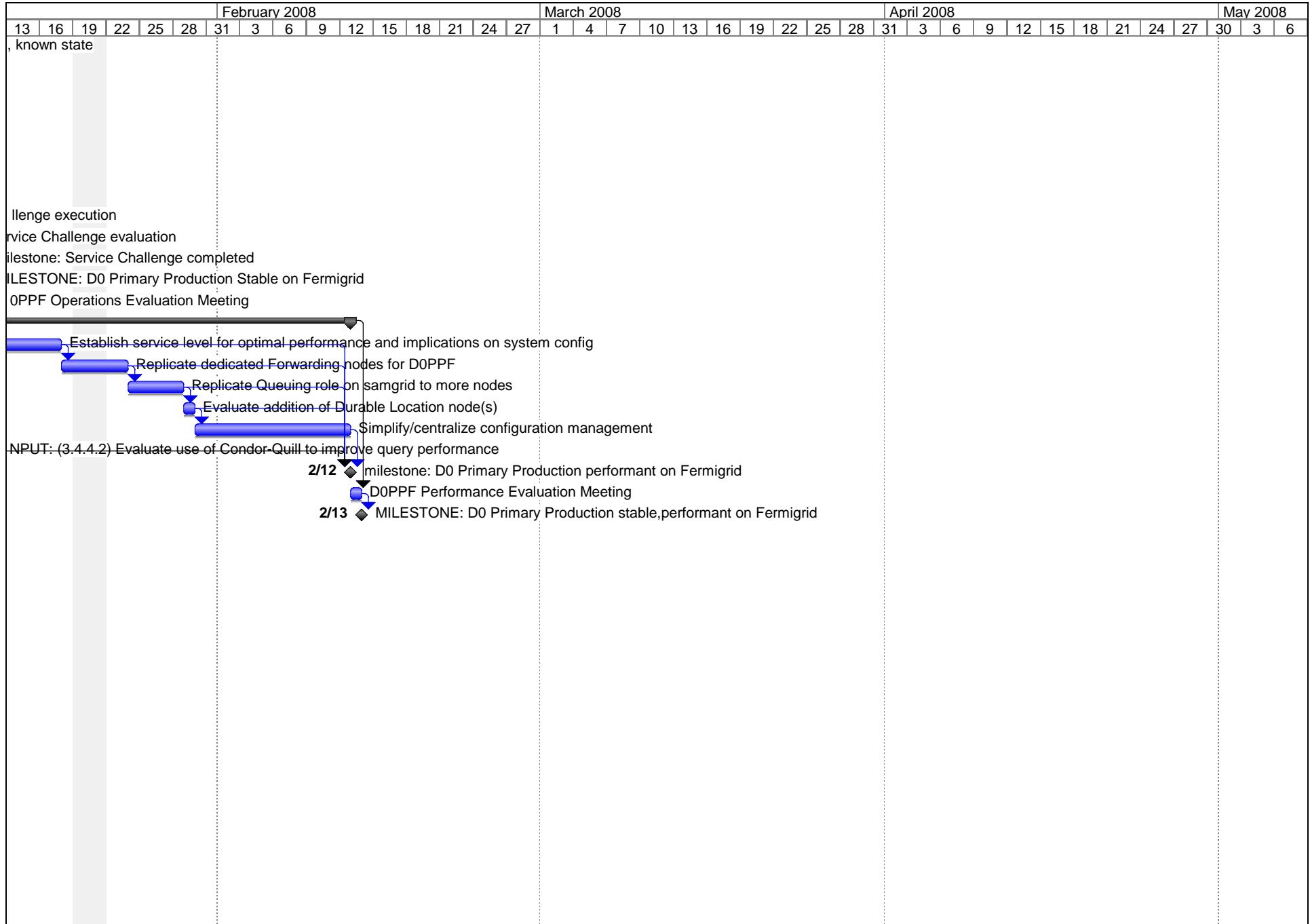
February 2008												March 2008												April 2008												May 2008										
13	16	19	22	25	28	31	3	6	9	12	15	18	21	24	27	1	4	7	10	13	16	19	22	25	28	31	3	6	9	12	15	18	21	24	27	30	3	6								
				</																																										

	February 2008												March 2008												April 2008												May 2008									
	13	16	19	22	25	28	31	3	6	9	12	15	18	21	24	27	1	4	7	10	13	16	19	22	25	28	31	3	6	9	12	15	18	21	24	27	30	3	6							
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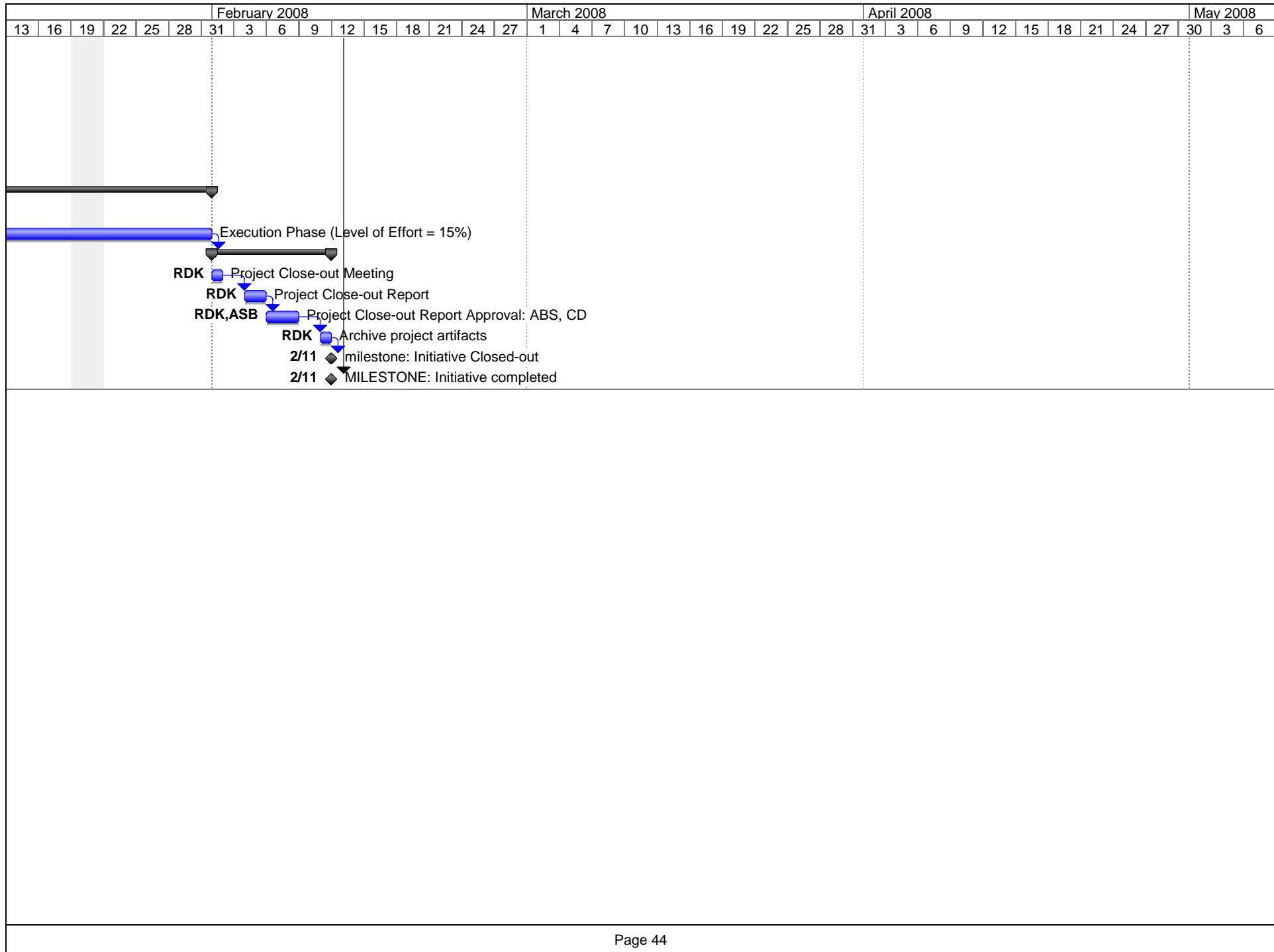












Project: D0 Grid Production Computing Date: Mon 10/8/07	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	